1731.

Pr. 2465
~~755 b.~~ 23

Apollo Anglicanus:

THE ENGLISH APOLLO.

Aſſiſting
All Perſons in the Right Underſtanding of this YEAR's Revolutions, as alſo of Things paſt, preſent, and to come.

A Twofold Kalendar, *viz. Julian* or *Engliſh*, and *Gregorian* or *Foreign* Computations, more plain and full than any other; with the Riſing and Setting of the Sun, the Nightly Riſing and Setting of the Moon, and alſo her Southing, exactly calculated for every Day.

Of General Uſe for moſt Men.

Being Third after *Biſſextile*; or *Leap-Year.*

To which is added the Moon's Application to the fixed Stars: With the Calculations of the Eclipſes: Alſo Rules and Tables for the Meaſuring of Timber: With many other things both pleaſant, uſeful, and neceſſary.

Calculated according to Art, and fitted to the Meridian of *Leiceſter*, whoſe Latitude is 52 Degrees, 41 Minutes, exactly fitting all the middle Counties of *England*, and, without ſenſible Error, the whole Kingdom.

By *RICHARD SAUNDER*,
Student in the Phyſical *and* Mathematical *Sciences.*

The Five and Fortieth Impreſſion of the ſame Author.

LONDON: Printed by A. WILDE,
for the Company of STATIONERS, 1731.

Ephemerides K.

The *Julian*, or Old Account uſed in *England*. } 1731. { The *Gregorian*, or New Stile uſed beyond Sea.

	3	The Golden Number	
	C	The Dominical Letter	
	3	The Epact	
February	28	Shrove-Sunday	February
May	27	Aſcenſion-Day	May
June	6	Whit-Sunday	May
November	28	Advent-Sunday	December

A Table of TERMS and their Returns.

Hilary-Term begins *Jan.* 23. and ends *Feb.* 12.

Eſſoin-days.			*Except.*		*Ret. Brev.*		*Appear.*	
Octab. Hilar.	Jan.	20	January	21	Jan.	22	Jan.	23
Quind. Hilar.	Jan.	27	January	28	Jan.	29	Jan.	30
Craſtin. Purif.	Feb.	3	Feb.	4	Feb.	5	Feb.	6
Octab. Purif.	Feb.	9	Feb.	10	Feb.	11	Feb.	12

Eaſter-Term begins *May* 5, and ends *May* 31.

Quind. Paſc.	May	3	May	4	May	4	May	5
Treſ. Paſch.	May	10	May	11	May	11	May	12
Menſ. Paſch.	May	17	May	18	May	18	May	19
Quinq. Paſch.	May	24	May	25	May	25	May	26
Craſt. Aſcenſ.	May	28	May	29	May	29	May	31

Trinity-Term begins *June* 18, and ends *July* 7.

Craſt. Trin.	June	14	June	15	June	16	June	18
Octab. Trin.	June	21	June	22	June	22	June	23
Quind. Trin.	June	28	June	29	June	29	June	30
Treſ. Trin.	July	5	July	6	July	6	July	7

Michaelmas-Term beg. *Oct.* 23, and ends *Nov.* 2

Treſ. Mich.	Octob.	20	Octob.	21	Octob.	22	Octo.	23
Menſ. Mich.	Octob.	27	Octob.	28	Octob.	29	Octo.	30
Craſt. Anim.	Nov.	3	Nov.	4	Nov.	5	Nov.	6
Craſt Mart.	Nov.	12	Nov.	13	Nov.	13	Nov.	15
Octab. Mart.	Nov.	18	Nov.	19	Nov.	20	Nov.	22
Quind. Mart.	Nov.	25	Nov.	26	Nov.	27	Nov.	29

A TABLE of the KINGS and QUEENS of *England*, ſince the Conqueſt.

	Born Ann.	*Began to reign.*	*Reign.* Y.	M.	*Since their Reign ended.*	*Buried at*
William 1	1029	1060, Octob. 14	20	11	652, Septem. 9	Caen Nor.
William 2	1056	1087, Sept. 9	12	11	631, Auguſt 2	Wincheſt.
Henry 1	1068	1100, Aug. 2	35	4	596, Decemb. 1	Reading
Stephen	1105	1135, Dec. 1	18	11	577, Octob. 25	Feverſham
The *Saxon* Line reſtor'd.						
Henry 2	1132	1154, Octo. 25	35	9	542, July 6	Fountever
Richard 1	1155	1189, July 6	9	9	532, April 6	Fountever
John	1165	1199, April 6	17	6	515, Octob. 19	Worceſter
Henry 3	1207	1216, Octo. 19	56	1	459, Nov. 16	Weſtmin.
Edward 1	1239	1272, Nov. 16	34	8	424, July 7	Weſtmin.
Edward 2	1283	1307, July 7	19	7	405, Jan. 25	Glouceſter
Edward 3	1312	1326, Jan. 25	51	5	354, June 21	Weſtmin.
Richard 2	1366	1377, Jun. 21	22	3	332, Sept. 29	Weſtmin.
The Line of *Lancaſter.*						
Henry 4	1367	1399, Sept. 29	13	6	320, March 20	Canterb.
Henry 5	1386	1412, Mar. 20	9	5	310, Auguſt 31	Weſtmin.
Henry 6	1421	1422, Aug. 31	38	6	271, March 4	Windſor
The Line of *York.*						
Edward 4	1442	1461, Mar. 4	25	1	248, April 9	Wincheſt.
Edward 5	1471	1483, April 9	0	1	247, June 18	Not know.
Richard 3	1448	1483, June 18	2	2	246, Auguſt 22	Leiceſter
The Families United.						
Henry 7	1455	1485, Aug. 22	23	6	222, April 22	Weſtmin.
Henry 8	1491	1509, April 22	37	10	183, Jan. 28	Windſor
Edward 6	1537	1547, Jan. 28	6	5	178, July 6	Weſtmin.
Qu. Mary	1518	1553, June 6	5	4	173, Nov. 17	Weſtmin.
Qu. Eliz.	1533	1558. Nov. 17	44	4	129, March 24	Weſtmin.
The Two Kingdoms in the ſame Line.						
James 1	1566	1602, Mar. 24	22	0	106, March 27	Weſtmin.
Charles 1	1600	1625, Mar. 27	23	10	82, Januar. 30	Windſor
Charles 2	1630	1648, Jan. 30	36	0	46, Februar. 6	Weſtmin.
James 2	1633	1684, Feb. 6	4	0	42, Februa. 13	S. Germai.
Will. &	1650	1689, Feb. 13	13	1	29, March 8	Weſtmin.
Mary	1662		5	10	37, Decem. 28	Weſtmin
Qu. Anne	1665	1702, Mar. 8	12	5	17, Auguſt 1	Weſtmin.
George 1	1660	1714, Aug. 1	12	10	4. June 11	Hanover.
George 2	1683	1727, June 11	Whom GOD grant long to Reign.			

You here may ſee a Race of Monarchs Great,
And in what Time each took the Royal Seat:
GOD ſet them up, the Subjects did them Crown,
The greateſt Rebel dares not pull 'em down:
If ſome were bad, who durſt them Tyrants call?
Since good, or bad, they're God's Vicegerents all.

A TABLE ſhewing the Time of the Moon's coming to the South in Hours and Minutes, every Day for the firſt Six Months of this Year 1731.

Days	*January*		*February*		*March*		*April*		*May*		*June*	
	h.	m.	h	m.	h	m.	h	m.	h	m	h.	m
1	3A.	42	4A	44	3A.	30	5A.	0	5A.	21	5A.	58
2	4	28	5	58	4	27	5	50	6	8	6	38
3	5	15	6	31	5	20	6	37	6	56	7	23
4	6	4	7	24	6	9	7	33	7	25	8	8
5	6	52	8	11	6	55	8	9	8	6	8	56
6	7	43	9	0	7	49	8	49	8	46	9	52
7	8	36	9	50	8	34	9	30	9	35	10	53
8	9	27	10	34	9	19	10	12	10	21	11	54
9	10	18	11	18	10	6	10	56	11	13	12	56
10	11	9	11	58	10	48	11	42	12	11	0M	56
11	11	56	12	43	11	27	12	33	0M	11	1	54
12	12	39	0M	43	12	12	0M	33	1	8	2	50
13	0M	39	1	17	0M	12	1	23	2	7	3	44
14	1	12	1	56	0	52	2	21	3	6	4	34
15	1	55	2	42	1	42	3	20	4	5	5	24
16	2	38	3	34	2	29	4	18	5	3	6	11
17	3	17	4	29	3	23	5	15	5	52	6	59
18	3	58	5	24	4	20	6	10	6	43	7	46
19	4	45	6	22	5	17	7	4	7	31	8	38
20	5	34	7	20	6	11	7	55	8	19	9	31
21	6	32	8	19	7	14	8	43	9	7	10	23
22	7	29	9	17	8	17	9	35	9	59	11	16
23	8	31	10	14	9	11	10	27	10	54	12	11
24	9	34	11	10	9	55	11	18	11	50	1A.	3
25	10	35	12	4	10	45	12	11	12	42	1	47
26	11	34	1A.	0	11	37	1A	7	1A.	31	2	31
27	12	31	1	55	12	34	2	4	2	23	3	14
28	1A.	25	2	42	1A.	26	2	58	3	12	3	50
29	2	15			2	19	3	50	3	54	4	30
30	3	2			3	13	4	37	4	38	5	14
31	3	55			4	2			5	20		

TABLE ſhewing the Time of the Moon's coming to the South in Hours and Minutes, every Day for the laſt Six Months of this Year 1731.

Days	*July*		*Auguſt*		*Septem.*		*Octob.*		*Novemb.*		*Decem.*	
	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.
1	6A.	0	7A.	11	9A.	3	9A.	40	11A.	6	11A.	33
2	6	41	8	12	9	59	10	31	11	58	12	26
3	7	35	9	14	10	51	11	29	12	56	0M	26
4	8	30	10	14	11	48	12	23	0M	56	1	15
5	9	27	11	15	12	40	0M	23	1	50	2	8
6	10	29	12	12	0M	40	1	17	2	42	2	52
7	11	40	0M	12	1	35	2	12	3	33	3	39
8	12	92	1	1	2	30	3	8	4	22	4	18
9	0M	29	1	57	3	24	4	3	5	10	5	0
10	1	25	2	49	4	18	4	59	5	53	5	43
11	2	19	3	38	5	14	5	52	6	33	6	23
12	3	14	4	33	6	8	6	30	7	13	7	2
13	4	7	5	29	6	56	7	13	7	57	7	51
14	4	55	6	20	7	43	7	49	8	37	8	43
15	5	46	7	12	8	31	8	40	9	21	9	31
16	6	47	8	6	9	14	9	23	10	9	10	28
17	7	31	8	53	9	51	10	3	11	0	11	25
18	8	21	9	40	10	34	10	49	11	58	12	24
19	9	12	10	24	11	91	11	36	12	52	1A	22
20	10	6	11	9	12	3	12	30	1A.	50	2	18
21	10	52	11	48	0A.	50	1A.	20	2	47	3	10
22	11	37	12	34	1	32	2	11	3	44	4	2
23	12	24	1A.	17	2	25	3	4	4	35	4	53
24	1A.	9	1	58	3	18	4	6	5	23	5	40
25	1	50	2	43	4	15	5	1	6	15	6	33
26	2	31	3	27	5	8	5	56	7	3	7	23
27	3	12	4	20	6	5	6	46	7	55	8	16
28	3	54	5	12	7	0	7	37	8	44	9	7
29	4	38	6	11	7	58	8	25	9	37	10	1
30	5	24	7	9	8	46	7	16	10	56	11	0
31	6	14	8	6			10	11			11	54

To find the Time of High Water in moſt Parts of England, *&c.*

FIrſt ſeek the Moon's Southing in the foregoing Table for your Day, then you may conclude it High-Water at the *Iſle of Wight*, *Southampton*, *Quinborough* and *Portſmouth*, for there the South and North Moons make a High-Water: But when you deſire the Time of Full Sea in any of the following Coaſts in the enſuing Table, find the Name of the Place, and ſee how many hours and minutes be annex'd thereunto in the Column under *H. M.* which being added to the time of the Moon's coming to the South, gives the time of High-Water at the Place required.

A *Tide Table* with the Names of the Havens.	H.	M.
Rocheſter, Malden, Aberdeen, Weſt-end of the Nore	0	45
Graveſend, Downs, Thanet, Romney, Ramkins	1	30
Dundee, St. Andrews, Lisbon, Bell-Iſle	2	15
London, Tinmouth, Hartle-pool, white Bay, Amſterdam	3	00
Bridlington-Bay, Berwick, Oſtend, Fluſhing, Bourdeaux	3	45
Frith, Leith, Dunbar, Narbon, Scarborough, Severn, Ballimore, Mounts-bay, Cork, Kingſale	4	30
Newcaſtle, Falmouth, Dartm. Humb. Torbay, Guernſey	5	15
Lyn, Antwerp, Plim. Hull, Weym. S. *David's,* S. *Malo*	6	00
Briſtol, Start-point, Lanion, Foulneſs	6	45
Millford, Bridgwater, Northcoaſt, Lands-end, Waterford	7	30
Portland, Peter-port, Hartflew, Dublin	8	15
S.*Hellens, Man-Iſle, Pool, Needles, Orford,* N.& S. *Forel.*	9	00
Dover, Yarmouth, Harwich, Callice-Road, Bullein	10	30
Rye, Winchelſea, Calſhot	11	15

Example.

The 4th Day of *March* this Year, it is required to know the Time of High-Water at *London*: By the Table of the Moon's coming to the South, againſt *March* the 4th, I find the Moon South at 6 ho. 9 min. in the aftern. then in the Tide-Table above, I find againſt *London*, 3 hours 0 min. which being added to 6 ho. 9 min. makes 9 ho. 9 m. in the Afternoon, the Time of High-water at *London*, the ſaid 4th Day of *March*; the like of any other.

Note, The Latitude of the Moon and Winds may alter it an hour ſooner or later; and the Tide flows conſiderably more at the New and Full Moons, than at the Firſt and Laſt Quarters.

DIRECTIONS *for the ſubſequent* DIARY *or* ALMANACK.

IN the firſt Column to the Left hand, on the Left-hand Page, you have the Numerical Figures of the Days of the Month.

In the ſecond Column you have the Week-days, and the Dominical Letter.

In the third Column you have the Saints-days, and the Places of the Planets once a Month; as alſo the Moon's Application to the Fixed Stars, by which the Aſteriſms and Conſtellations may be eaſily known to an ingenious Eye and Underſtanding.

In the fourth Column the Moon's Place in the Zodiack, every Day at Noon.

In the fifth Column the Riſing and Setting of the Moon, with Reſpect to her Latitude.

In the ſixth Column the Mutual Aſpects of the Planets, with the General State of the Weather.

In the firſt Column on the Right-hand Page you have the *Engliſh* Account.

In the ſecond Column you have the *Roman* Account, being now Eleven Days before ours.

In the third Column the *Roman* Week-days.

In the fourth Column the perfect *Roman* Kalendar, and Saints-days.

In the fifth Column you have a Treatiſe of the Clouds, Thunder, Lightning, *&c.*

The ſixth, ſeventh, and eighth Columns, the utmoſt to the Right-hand, ſhew you the daily Riſing and Setting of the Sun.

On the top of the Left-hand Page is ſet the New and Full Moons, with the firſt and laſt Quarters.

On the top of the Right-hand Page is ſet the Riſing, Southing, and Setting of the Planets.

January hath xxxi Days.

☽ Firſt Quarter the 4th day, at 4 in the morning.
● Full Moon the 12th day, at 4 in the morning.
☾ Laſt Quarter the 20th day, at 4 in the morning.
● New Moon the 26th day, at 9 at night.

1	a	New-Year's Day	piſces 18	10A.	1	
2	b	☽ prop. Algenib	aries 2	11	25	
3	C	2 Sund. aft. Chr.	aries 16	12	43	Moon's ſetting.
4	d	☽ pr. prim. ✱ Ar.	aries 29	0M	43	
5	e	☽ pr. Caud. Ariet	taur. 12	1	57	
6	f	Epiphany	taur. 25	3	12	
7	g	☽ prope Aldeba.	gem. 7	4	25	
8	a	☽ pr. Cornu. ♉	gem. 19	5	21	
9	b	Sol in Aquario	canc. 1	6	11	
10	C	1 Sun. aft. Epip.	canc. 13	6	53	
11	d	♄ ♓ 18.	canc. 25	7	31	
12	e	♃ ♏ 8 R.	leo 7	Full ●		
13	f	*Hilary.*	leo 19	5A.	54	
14	g	♂ ♓ 10.	virgo 0	7	3	
15	a	♀ ♑ 28. R.	virgo 12	8	17	
16	b	☿ ♒ 24.	virgo 25	9	31	Moon's riſing.
17	C	2 Sund. aft. Epi.	libra 7	10	43	
18	d	☊ ♑ 16.	libra 19	11	53	
19	e	☽ pr. Lanx. Auſt.	ſcor. 2	12	59	
20	f	☽ pr. Lanx. bor.	ſcor. 15	0M	59	
21	g	St. *Agnes.*	ſcor. 29	2	24	
22	a	☽ pr. Dex. Cr. O.	ſagit. 13	3	49	
23	b	Term begins	ſagit. 27	4	46	
24	C	3 Sun. aft. Epip.	capr. 12	5	41	
25	d	Conver. St. Paul	capr. 27	6	24	
26	e	☽ pr. Sin. Hum ♒	aqua. 12	New ●		Moon's riſing
27	f	☽ pr. Dex. Bra. ♒	aqua. 27	5A.	53	
28	g	☽ pr. Marchab.	piſces 12	7	23	
29	a	☽ prope Algenib	piſces 27	8	54	
30	b	K. Char. I. Mart.	aries 11	10	19	
31	C	4 Sun. aft. Epip.	aries 25	11	47	

Cold, raw, and
moiſt weather
at the begin-
☌ ♀ ☿ ning,
then windy
and ſtorms,
bringing ſnow
or cold rain,
and will pro-
☌ ☉ ♀ bably
contin. rough
and turbulent
☍ ♃ ♂ till af-
ter the Full Moon,
then we may ex-
pect ſome ſharp
Froſts, but not of
long continuance;
but followed with
high Winds, and
Storms with ſome
downfall of Snow
or Rain; Now
ſome moderate
Froſts, with mild
and pleaſant Days,
and (except ſome
Stormy Weather
about the New
☌ ♄ ♂ moon)
may expect
mild and tem-
perate to the
✱ ♂ ♀ End.

SAUNDER, January 1731.

Saturn at the begin. ſets about 9 at night, at the end between 7 and 8. *Jupiter* at the beginning riſes about 8 at Night, at the end between 6 and 7. *Mars* ſets between 7 & 8 at Night. *Venus* is Combuſt. *Mercury* emergeth, ſetting a little after the *Sun*.

English Accoun.	Foreig. Accoun.	Rom. Kalendar.	Rom. St. Days.						
1	12	e	Satyrus	IN my laſt, treating	1	8	7	3	53
2	13	f	Hilarius	of the Height of the	2		5		55
3	14	G	2 S. af Ep	Clouds, I mentioned	3		4		56
4	15	a	Mauritius	the way of taking their	4		3		57
5	16	b	Marcellus	Altitude by their Sha-	5	8	1	3	59
6	17	c	Anthony	dow, which is the moſt	6	7	59	4	1
7	18	d	Priſca	certain way for ſuch	7		58		2
8	19	e	Pontian	ſmall compact Clouds	8		57		
9	20	f	Fab.&Seb.	whoſe ſhadow may be	9		55		
10	21	G	Septuageſi	eaſily diſcerned from	10		54		5
11	22	a	Vincent	the ſtation of the ob-	11		52		6
12	23	b	Emerant	ſerver. Now a ſpeedy	12		51		8
13	24	c	Timothy	and exact way to do	13		50		9
14	25	d	Con.St.Pa.	this, is when ſmall and	14		48		10
15	26	e	Polycarp	compact Clouds are	15	7	46		12
16	27	f	Chryſoſt.	thinly diſperſed, and	16		45	4	14
17	28	G	Sexageſim.	floating about; and the	17		43		15
18	29	a	Valerius	*Sun* of ſome conſidera-	18		40		17
19	30	b	Adelgun	ble height (the higher	19		38		20
20	31	c	Syriacus	the better) wait in	20		36		22
21	Febr.		Bridget	ſome open and level	21		34		24
22	2	e	Pur. V. M.	place for ſome one of	22	7	33		26
23	3	f	Blaſe	theſe coming to the	23		31	4	27
24	4	G	Quinquag.	Zenith, or point di-	24		29		29
25	5	a	Agatha	rectly over head, and	25		27		31
26	6	b	Shrov. Tu.	obſerve where its ſha-	26		25		33
27	7	c	Aſh-Wedn	dow then falls; and at	27		23		35
28	8	d	Corinthia	the ſame time, take	28		21		37
29	9	e	Apo V.M.	the Altitude of the	29		19		39
30	10	f	Scholaſt.	*Sun*; then knowing the	30	7	17		41
31	11	G	Quadrageſ	diſtance of the ſtation	31		16	4	4
				from					44

February hath xxviii Days.

☽ Firſt Quarter the 2d day, at 6 at night.
● Full Moon the 10th day, at mid-night.
☾ Laſt Quarter the 18th day, at 4 in the afternoon.
● New Moon the 25th day, at 7 in the morning.

Mont Da.	Week Da.	Feſtival & Saints days, with the ☾'s applicat. to the noted fixed ſtars	The ☽'s place in the zodiack at N.		The ☾'s rising fro. the full to the change, & ſetting fr. the cha. to the fu.	
1	d	☽ pa. Caud. Ariet.	taur.	8	12	27
2	e	Purifica. V. Mary	taur.	21	0M	27
3	f	☽ prope Aldeb.	gem.	4	1	51
4	g	☽ prope Corn ♉	gem.	16	3	4
5	a	☽ Pr. Luc. Ped. ♊	gem.	28	4	5
6	b	☽ pr. Caſt. & Pol.	canc	1	4	47
7	c	Sun. aft. Epiph.	canc.	22	5	20
8	d	☽ Prope Aſſellos	leo	3	5	47
9	e	Sol in Piſces	leo	15	6	14
10	f	☽ Pr. Cordem ♌	leo	27	Full ●	
11	g	☽ pr. Caudam ♌	virgo	9	6A	25
12	a	Term ends	virgo	2	7	20
13	b	☽ pr. Vindem'at	libra	4	8	39
14	c	Septuageſima	libra	16	9	45
15	d	♄ ♓ 22.	libra	29	10	59
16	e	♃ ♍ 4 ℞.	ſcorp	12	12	18
17	f	♂ ♈ 6.	ſcorp.	2	0M	18
18	g	♀ ♑ 29. D.	ſagit.	8	1	24
19	a	☿ ♒ 19. St. ad D.	ſagit.	22	2	33
20	b	☋ ♑ 14.	capr.	6	3	32
21	c	Sexageſima	capr.	21	4	17
22	d	☽ pr. Luc. Ma. ♒	aquar.	5	4	51
23	e	☽ pr. Sin. Hum ♒	aquar	20	5	51
24	f	St. Matthias	piſces	5	5	37
25	g	☽ prope March	piſces	21	New ●	
26	a	☽ pr. Algenib.	aries	5	7A.	47
27	b	☽ pr. Vent. Cet.	aries	20	9	14
28	c	Quinquageſima	taur.	3	10	36

Moon's ſetting.

Moon's riſing.

Moon's riſing.

The mutual Aſpects of the Planets, with the Various Conſtitution of Air, and change of Weath.

Cloudy and cloſe, alſo ☌ ☉ ☿ windy with plenty of Snow or cold Rain at the beginning, then follow ſome ſharp Froſts, but not without high ☍ ☉ ♃ winds and Storms about the 10th or 11th Days: yet Sharp and froſty therewith, then follow ſome miſty and foggy Days. The 21 or 2. Days produce Winds, then mild and pleaſant for a Day or two, other whiles ſome miſty and driſling Days; but about the end, windy & ſtormy with Snow or cold Rain.

Valentine.

SAUNDER, February 1731.

Saturn at the begin. ſets about 7 at Night, at the end about 6. *Jupiter* at the begin is South between 1 and 2 in the Morning, at the end between 11 and 12 at Night. *Mars* ſets a little after *Saturn*. *Venus* emergeth, riſing bef. the ☉. ☿ is Combuſt

Engl. Account	For. Account	Rom. Kalendar	Rom. St. days Feriæ Sta. & Concep.	*Of the* Clouds, Thunder, *&c.*	M.D.	☾ riſ.		☉ ſet.	
1	12	a	Severius	from the ſhadow, ſay,	1	7	14	4	46
2	13	b	Euſtatius	as the Sign of the com-	2		12		48
3	14	c	Valentine	plement of the *Sun*'s	3		10		50
4	15	d	Fauſtinus	Altitude, to that di-	4		8		52
5	16	e	Julianus	ſtance, ſo is the Sign	5		6		54
6	17	f	Conſtance	of the *Sun*'s Altitude	6		4		56
	18	G	Reminiſce	to the perpendicular	7		2	4	58
8	19	a	Romanus	Height of the Clouds,	8	7	0	5	0
9	20	b	Mildred	or its diſtance from	9	6	58	5	2
10	21	c	Eſaias	the Earth: And here,	10		56		4
11	22	d	Cath. Pet	if you can meet with	11		54		6
12	23	e	Serenus	a Cloud ſo fitly poſit-	12		52		8
13	24	f	St. Matthi	ed in the Zenith, when	13		50		10
14	25	G	Oculi	the *Sun*'s height is juſt	14		48		12
15	26	a	Simeon	45 deg. then is the	15	6	46	5	14
16	27	b	Auguſtin.	height of ſuch Cloud	16		44		16
17	28	c	Oſwald E.	equal to the diſtance of	17		42		18
18	Marc		David B.	its ſhadow from your	18		40		20
19		e	Chad B.	ſtation; but if your	19		38		22
20	3	f	Mauritius	ſtation be not level	20		36		24
21	4	G	Lætare	with the place where	21		34		26
22	5	a	Phocas	the ſhadow falls, ob-	22	6	32	5	28
23	6	b	Victorius	ſerve how much the	23		30		30
24	7	c	Perpetua	Angle at the ſtation is	24		28		32
25	8	d	Cyprianus	augmented, or dimi-	25		26		34
26	9	e	Prud. M.	niſhed thereby, for ſo	26		24		36
27	10	f	Agapite	much is the Angle at	27		22		38
28	11	G	Judica	the ſhadow diminiſhed	28	6	20	5	40

March hath xxxi Days.

☽ First Quarter the 4th day, at noon.
● Full Moon the 12th day, at 4 in the afternoon.
☾ Last Quarter the 20th day, at 1 in the morning.
● New Moon the 26th day, at 5 in the afternoon.

1	d	Q. Carol. B. 1682.	taur.	17	12 A.	0	
2	e	*Chad* B. Shrov. T.	gem.	0	0 M	0	
3	f	Aſh-Wedneſday	gem.	12	1	8	Moon's ſetting
4	g	☽ prope propus	gem.	24	2	3	
5	a	☽ pr. Sin. Gen. ♊	canc.	7	2	39	
6	b	☽ Pr. Caſt. & Pol	canc.	18	3	25	
7	C	Quadrageſima	leo	0	3	49	
8	d	☽ pr. Au. in Ca. ♌	leo	12	4	7	
9	e	Sol in Ariete	leo	24	4	29	
10	f	Ember Week	virgo	6	4	43	
11	g	☽ pr Auſt. Al. ♍	virgo	18	4	53	
12	a	☽ pr. Vindemiat.	libra	0	Full ●		
13	b	☽ pr. Spic. Virg.	libra	13	7 A.	44	
14	C	2 Sunday in Lent	libra	26	8	59	
15	d	♄ ♓ 26.	ſcorp.	4	10	10	
16	e	♃ ♍ 1. R.	ſcorp.	22	11	32	Moon's riſing.
17	f	*St Patrick.*	ſagit.	5	12	50	
18	g	♂ ♈ 28.	ſagit.	19	0 M	50	
19	a	♀ ♒ 23.	capr.	3	1	30	
20	b	☿ ♓ 17.	capr.	16	2	21	
21	C	3 Sunday in Lent	aqua.	1	3	4	
22	d	☊ ♑ 13.	aqua.	15	3	27	
23	e	☽ pr. Dex Ma. ♒	piſces	0	3	49	
24	f	☽ pr. Marchab.	piſces	14	4	9	
25	g	Annun. Vir. Mar	piſces	29	4	26	
26	a	☽ pr Vent. Cete	aries	13	New ●		
27	b	☽ pr. pri. ✱ Ari	aries	28	8 A	26	Moon's ſett.
28	C	Midlent Sunday	taur.	12	9	43	
29	d	☽ Pr. Pleiades.	taur.	25	11	2	
30	e	☽ pr. Aldebaran	gem.	8	12	13	
31	f	☽ Pr. Cornu. ♉	gem.	20	0 M	13	

High Winds with plenty of Snow or cold ☌ ☉ ♄ Rain at the begining, then follow ſome ☍ ♃ ☿ calm, warm & pleaſant Days, alſo ſome brisk Froſts, mild & pleaſant. The Full Moon produces ſtorms and tempeſtuous Weather, followed with ſharp Froſts; then △ ♃ ♂ ſome warm Days, and continues mild & pleaſant till the 24 or 25 days, when we may expect ☌ ♄ ☿ ☍ ♃ ♀ plenty of downfall, Snow, or cold Rain; at the end mild and temperate.

SAUNDER, March 1731.

Saturn at the beginning is Combuſt. *Jupiter* at the begin. is South between 10 and 11 at night, at the end between 9 and 10. *Mars* ſets about 8 at Night. *Venus* riſes about 4 in the morning. *Mercury* about the middle may be ſeen riſing bef. the *Sun*

Engl. Account.	For. Account.	Rom. Kalendar.	Rom. St. days.						
1	12	a	Gregory	ed or augmented, and	1	6	18	5	42
2	13	b	Severinus	then the Rule ſtill	2		16		44
3	14	c	Eutychus	holds; as the Angle	3		13		47
4	15	d	Longinus	at the Cloud to the	4		11		49
5	16	e	Hilarius	oppoſite ſide, *viz.* the	5		9		51
6	17	f	Gertrude	diſtance of the ſha-	6		6		54
7	18	G	Palm Sun.	dow from the ſtation,	7		4		56
8	19	a	Joſephus	ſo the Angle at the	8	6	2	5	58
9	20	b	Cuthbert	ſhadow to the perpen-	9	6	0	6	0
10	21	c	Bened. Ab.	dicular Altitude of the	10	5	58	6	2
11	22	d	Victorius	Cloud, or diſtance	11		56		4
12	23	e	Aphrodit	thereof from the Earth	12		54		6
13	24	f	Quirinus	Thus the Clouds will	13		52		8
14	25	G	Paſ. An[illegible]	be found often times	14		50		10
15	26	a	Caſtulus	not a mile high, ſome-	15		48		12
16	27	b	Nector	times not above half a	16	5	46	6	14
17	28	c	Dorothy	mile: That ſome light	17		44		16
18	29	d	Fortuna	and thin Clouds, in ve-	18		42		18
19	30	e	Guido	ry fair weather, are	19		40		20
20	31	f	Balbina	much higher, cannot	20		38		22
21	April		Quaſimod.	be denied, yet not	21		36		24
22	2	a	Mary Egy.	near that extravagant	22		34		26
23	3	b	Richard. R	height imagin'd by	23		32		28
24	4	c	Ambroſe	ſome; *Cardan*, &c.	24	5	30	6	30
25	5	d	Vincent	Note, whereas, in my	25		28		32
26	6	e	Sixtus Pap.	laſt, I mention'd a de-	26		26		34
27	7	f	Cæleſtinus	monſtration of Mr.	27		23		37
28	8	G	Miſericor.	*Wing*'s in his ſix Years	28		21		39
29	9	a	Albinus	*Ephemerides* of the	29		19		41
30	10	b	Marcellus	height of the Atmo	30	5	17	6	43
31	11	c	Leo Pap.	ſphere, by a miſtake	31		15		45
				it					

April hath xxx Days.

☽ Firſt Quarter the 3d day, at 7 in the morning.
○ Full Moon the 11th day, at 6 in the morning.
☾ Laſt Quarter the 18th day, at 7 in the morning.
● New Moon the 25th day, at 4 in the morning.

1	g	☽ pr Luc. Ped. ♊	canc.	3	0 M	57	
2	a	☽ pr Caſt & Pol.	canc.	15	1	34	
3	b	☽ prope Aſellos	canc	27	2	8	Moon's ſetting.
4	C	Sunday in Lent	leo	8	2	29	
5	d	☽ pr. Cordem ♌	leo	20	2	46	
6	e	☽ pr. Tergum ♌	virgo	2	3	0	
7	f	☽ pr. Caud. ♌	virgo	14	3	13	
8	g	☽ pr. Vindemiat.	virgo	27	3	25	
9	a	Sol in Tauro	libra	9	3	41	
10	b	☽ pr. Spicam ♍	libra	22	4	0	
11	C	Palm Sunday	ſcorp.	5	Full ○		
12	d	♄ ♓ 29.	ſcorp.	18	9 A.	17	
13	e	♃ ♍ 0 St. ad D.	ſagit.	2	10	29	
14	f	♂ ♉ 17.	ſagit.	16	11	45	
15	g	☿ ♓ 21.	ſagit.	29	12	36	Moon's riſing.
16	a	♀ ♉ 7	capr.	1	0 M	36	
17	b	☊ ♑ 11.	capr.	27	1	3	
18	C	Eaſter-Day	aquar.	11	1	27	
19	d	☽ pr. D. Brac. ♒	aquar.	25	1	56	
20	e	☽ pr. Marchab.	piſces	10	2	23	
21	f	☽ pr. Alchenib.	piſces	24	2	37	
22	g	☽ pr. Caud. Cete.	aries	8	2	50	
23	a	St. George.	aries	2	3	22	
24	b	☽ pr. Manker	taur.	6	3	47	
25	C	Low-Sunday	taur.	19	New ●		
26	d	☽ pr. Aldebaran	gem.	3	9 A.	48	Moon ſetting
27	e	☽ pr. Cornu ♉	gem.	16	10	47	
28	f	☽ pr. Luc. Ped. ♊	gem.	28	11	31	
29	g	☽ prope Caſtor.	canc.	[illegible]	12	17	
30	a	☽ pr. L. in Ca. ♋	canc.	2[illegible]	0 M	17	

Cloudy and cloſe, a ſ, miſty & foggy, & about the 4 or 5th days ſome ſtorms of cold Rain, then * ♂ ♀ ſome △ ☉ ♃ warm and pleaſant days; about △ ♃ ☿ the Full ☽ ſome ſhowers, alſo ☌ ☉ ☿ miſts and driſling rain, follow'd with ſome hot weather, other whiles ſome briſk Winds, bringing ☌ ♄ ♀ ſhow- ☌ ♂ ♀ ers, & (St. Mark) continues droping * ♄ ☿ □ ♃ ♀ and ſhowery. Now we may expect fair Weather to the end of the Month.

Saturn emergeth from under the Sun-Beams, riſing before him. *Jupiter* at the begin. is South between 8 and 9 at Night, at the end about Sun-ſet, and then ſets ſets between 2 and 3 in the morning. *Mars* is going to Combuſtion. *Venus* riſes between 3 and 4 in the Morning. *Mercury* is Combuſt.

Engl. Account.	For. Account.	Rom. Kalendar.	Rom. St. days.					
1	12	d	Julius	1	5	13	6	47
2	13	e	Juſtinus	2		11		49
3	14	f	Tiburtius	3		9		51
4	15	G	Jubilate	4		7		53
5	16	a	Cariſius	5		5		55
6	17	b	Elutherius	6		3		57
7	18	c	Anicetus	7	5	1	6	59
8	19	d	Timon	8	5	0	7	0
9	20	e	Sulpitius	9	4	58	7	2
10	21	f	Quintin	10		56		4
11	22	G	Cantate	11		54		6
12	23	a	*St. George*	12		52		8
13	24	b	Albertus	13		50		10
14	25	c	St. Mark	14		48		12
15	26	d	Clet. P.M.	15	4	46	7	14
16	27	e	Anaſtatius	16		44		16
17	28	f	Vitalis	17		42		18
18	29	G	Rogate.	18		41		19
19	30	a	Eutropius	19		39		21
20	May		Ph. & Jac.	20		35		21
21	2	c	Athanaſius	21		36		24
22	3	d	Aſ. Dom.	22	4	34		26
23	4	e	Florianus	23		32	7	28
24	5	f	Gothard	24		30		3
25	6	G	Exaudi	25		28		32
26	7	a	Juvenal	26		26		34
27	8	b	Staniſlaus	27		24		36
28	9	c	Greg. Naz	28		23		37
29	10	d	Gordi, &c.	29		21		39
30	11	e	Mamert.	30	4	19	7	41

it was printed 34 Miles, which ſhould have 43 Miles, for ſo Mr. *Wing* hath made it, *viz.* Forty Three; nearly agreeing with *Kepler* and others. Now altho' ſuch compact Clouds have their Heights found as before, yet are their Clouds much lower, which do even touch the Hills and ſweep upon the Earth, and which we often walk through; for ſo I account of Miſts, which are no other than thin, ſpungy or more rarified; and tho' we do not (whilſt they are about us, and we in them) call or account them ſo, yet are they no ſooner a little elevated or drawn up, but we immediately call them Clouds, and oftentimes they are, by the cold in the Atmoſphere, and at no great Diſtance from us, ſo condenſed and united, that they ſuddenly return upon us in great Showers of Rain; hence have we the ſaying common among us, That when the Miſt is drawn up to the Tops of the Hills, 'tis a Sign of Rain, but if we ſee the Miſts driven along the

May hath xxxi Days.

☽ Firſt Quarter the 3d day, at 1 in the morning.
● Full Moon the 10th day, at 5 in the afternoon
☾ Laſt Quarter the 17th day, at 1 in the afternoon.
● New Moon the 24th day, at 4 in the afternoon.

1	b	Philip & Jacob	leo	4	0 M	40	
2	C	2 Sun. aft. Eaſter	leo	16	0	53	Moon's ſetting.
3	d	☽ pr. Cord. ♌	leo	28	1	7	
4	e	☽ pr. Caud. ♌	virgo	1	1	21	
5	f	Term begins	virgo	22	1	35	
6	g	☽ prope Vindem.	libra	4	1	50	
7	a	☽ pr. Spic. Virg.	libra	17	2	6	
8	b	☽ pr. Au. in V. ♍	ſcorp.	0	2	26	
9	C	3 Sun. aft. Eaſter	ſcorp.	14	2	48	
10	d	Sol in Gemini.	ſcorp.	27	Full	●	
11	e	♄ ♈ 2.	ſagit	11	9 A	17	
12	f	♃ ♍ 1. D.	ſagit.	25	10	29	
13	g	♂ ♊ 8.	capr.	7	11	14	
14	a	♀ ♈ 24.	capr.	24	11	52	Moon's riſing.
15	b	☿ ♊ 28.	aqua.	8	12	17	
16	C	4 Sun. aft. Eaſter	aqua.	22	0 M	17	
17	d	☊ ♑ 11.	piſces	6	0	35	
18	e	☽ pr. Caud. Cet	piſces	20	0	51	
19	f	☽ pr. Algenib.	aries	4	1	12	
20	g	☽ pr. venit Cete	aries	18	1	23	
21	a	☽ pr. prim ✱ ♈	taur.	2	1	37	
22	b	☽ pr. Caud. ♈	taur.	18	1	59	
23	C	Rogation Sund.	taur.	28	2	28	
24	d	☽ prope Pleiades	gem.	11	New	●	
25	e	☽ pr. Propus.	gem.	24	8 A.	42	Moon ſetting.
26	f	☽ pr. Luc. Ped. ♊	canc.	5	10	3	
27	g	Aſcen. Domin.	canc.	18	10	46	
28	a	☽ prope Aſſellos	leo	1	11	9	
29	b	K.C. II Nat. & R.	leo	12	11	25	
30	C	6 Sun. aft. Eaſter	leo	24	11	37	
31	d	Term ends	virgo	6	11	48	

Cooldry winds
□ ♄ ♂ ✱ ♀ ☿
✱ ♄ ☌ at the
begining, rai-
ſing Showers
about the 5 or
6 Days, then
follow ſome
hot Days
and will very
□ ☉ ♃ proba-
✱ ☉ ♄ bly
continue fair
&pleaſant, ex-
cept ſome
ſhowers about
the Full Moon
for ſome time,
now hot and
ſeaſonable, o-
△ ♃ ♀ ✱ ☿ ☿
✱ ♃ ♀ □ ♄ ♀
ther whiles ſome
brisk Winds, but
for the moſt part
hot, and perhaps
ſome Thunder.
Showers about the
New Moon, and
may be more
Showery about
the end of the
☌ ☉ ♂ month.

SAUNDER, May, 173

Saturn *at the beginning riſes between* 2 *and* 3 *in the morning, at the end between* 1 *and* 2. Jupiter *at the beginning ſets between* 1 *and* 2 *in the morning, at the end between* 12 *and* 1. Mars *at the end is combuſt.* Venus *riſes between* 3 *and* 4 *in the morning.* Mercury *ſets after the Sun.*

	For. Account.	Rom. Kalend.	Rom. Sts. days						
1	12	f	Pancratius	the Valleys, the Sun diſ-	1	4	18	7	42
2	13	G	Pentecoſt	cuſſing, rarifying, and diſ-	2		17		43
3	14	a	Boniface	perſing them, 'tis a Sign of	3		15		45
4	15	b	Sophia	fair Weather; for as Miſts	4		14		46
5	16	c	Peregrinus	are no other but thin, ſpun-	5		12		48
6	17	d	Torpet	gy, and rarified Clouds, ſo	6	4	11	7	49
7	18	e	Venant	are Clouds no other than	7		9		51
8	19	f	Potentia	thick, condenſed and uni-	8		7		53
9	20	G	Trin. Sun.	ted Vapors or Miſts, which,	9		6		54
c	21	a	Timotheus	when ſo far condenſed as	10		4		56
1	22	b	Hoſpitius	to become too ponderous	11		3		57
2	23	c	Deſiderius	to be ſupported by the Air,	12	4	1	7	59
3	24	d	Corp. Chri.	fall down upon us in Rain,	13	4	0	8	0
4	25	e	Quadratus	Hail or Snow. As to the	14	3	59		1
5	26	f	Edward	diſtance of Clouds from	15		58		2
6	27	G	1 Su. p. Tr.	whence proceed Lightning	16		56		4
7	28	a	Germanus	and Thunder, I gave ſome	17		55		5
8	29	b	Maximin.	Account how their diſtance	18		54		6
9	30	c	Wigand.	might be nearly computed,	19		52		8
c	31	d	Petronel	by a nice comparing the	20	3	51	8	9
1	June		Pamphil.	Space of Time betwixt the	21		50		10
2	2	f	Marcellus	Lightning and the Clap of	22		49		11
3	3	G	2 Su. p. Tr.	Thunder following it, with	23		48		12
4	4	a	Quirinus	the Report of Guns heard	24		47		13
5	5	b	Boniface	at a certain diſtance; for	25		46		14
6	6	c	Artemid.	the Seconds of Time nicely	26	3	46	8	14
7	7	d	Paul B. M	accounted betwixt the fi-	27		45		15
8	8	e	Torpetus	ring a Gun, and the Time	28		45		15
9	9	f	Barnim.	that the Report ſhall come	29		44		16
c	10	G	3 Su. p. Tri.	to the Ear of him that is	30	3	44	8	16
1	11	a	S. Barnabas	B at	31		43		17

June hath XXX Days.

☽ Firſt Quarter the 1ſt day at 6 in the Afternoon.
● Full moon the 9th day at 2 in the morning.
☾ Laſt Quarter the 15th day at 6 in the Afternoon.
● New moon the 23d day at 6 in the morning.

1	e	☽ pr. Caud. ♌	virgo	18	11 A	56		Showery, alſo
2	f	☽ pr. Vindemiat.	libra	0	12	9	Moon's ſetting.	hot, and proba-
3	g	☽ pr. Spicam ♍	libra	12	0 M	9		□ ♄ ☿ bly ſom
4	a	☽ pr. auſ. veſt ♏	libra	25	0	23		✱ ♃ ♀ Thunde
5	b	☽ pr. Lanx auſt.	ſcorp.	8	0	39		about the begin
6	c	Whit-Sunday	ſcorp.	22	0	55		ning. Now ſome
7	d	☽ pr. cordem ♏	ſagit.	5	1	15		briſk cooling
8	e	☽ eclips'd viſib.	ſagit.	20	2	36		Gales of Wind,
9	f	Ember Week	capri.	4	Full	●		followed with
10	g	Sol in Cancer	capri.	19	9 A	47		☌ ☉ ☿ driſling
11	a	K. Geo. 2. Inaug	aquar.	4	10	13		(St. Barnabas)
12	b	♄ ♈ 4.	aquar.	18	10	33		☌ ♂ ☿ Rain o
13	c	Trinity Sunday	piſces	3	10	52	Moon's riſing.	Showers, and is
14	d	♃ ♍ 5.	piſces	17	11	7		□ ☉ ♄ likely t
15	e	K. Geo. 2. procl	aries	1	11	19		continue ſhowery
16	f	♂ ♋ 1.	aries	15	11	31		✱ ☉ ♃ then ſom
17	g	♀ ♊ 3.	aries	28	11	57		hot & ſultry days
18	a	Term begins	taur.	12	12	25		✱ ♄ ♀ but no
19	b	☿ ♊ 25.	taur.	25	0 M	25		△ ♃ ♀ withou
20	c	1 Sun. aft. Trin.	gem.	7	1	4		□ ♄ ♂ frequen
21	d	☊ ♑ 8.	gem.	20	1	51		Showers, and
22	e	☽ pr. Luc. ped. ♊	canc.	2	2	40		plenty thereof
23	f	☉ eclips'd inviſ	canc.	15	New	●		about the New
24	g	St. John Baptiſt	canc.	27	9 A	1	☽'s ſetting.	✱ ♃ ♂ Moon,
25	a	☽ pr. Caput ♌	leo	9	9	27		then hot and d
26	b	☽ pr. Cordem ♌	leo	21	9	46		for a day or tw
27	[illegible]	2 Sun. aft. Trin.	virgo	2	9	56		but for the mo
28	d	☽ pr. Caud. ♌	virgo	14	10	5		part ſhowery to
29	e	☽ pr. Vindemiat.	virgo	26	10	16		the end of the
30	f	pr. Spica virg.	libra	8	10	28		Month.

Saturn *at the beginning riſes between* 12 *and* 1 *in the morning, at the end between* 11 *and* 12 *at night.* Jupiter *at the beginning ſets between* 11 *and* 12 *at night, at the end between* 10 *and* 11. Mars *and* Mercury *are both hid under the Sun Beams.* Venus *riſes about* 2 *in the morning.*

Eng. Account.	For. Account.	Rom. Kalend.	Rom. Sts. days.					
1	12	b	Baſiliſtes	1	3	43	8	17
2	13	c	Cyrillus	2		43		17
3	14	d	Valerius	3		43		17
4	15	e	Vitus, *&c.*	4		42		18
5	16	f	Rulandus	5		42		18
6	17	G	4 Sup. Tri.	6		42		18
7	18	a	Marcus	7		42		18
8	19	b	Gervaſe	8		41		19
9	20	c	Regina	9		41		19
10	21	d	Warburga	10		41		19
11	22	e	St. Alban	11	3	41	3	19
12	23	f	Baſilius	12		41		19
13	24	G	5 Sup. Tri (St. John Baptiſt.)	13		41		19
14	25	a	Amandus	14		42		18
15	26	b	Jeremias	15		42		18
16	27	c	Sept. Dor.	16		42		18
17	28	d	Leo Pap.	17		43		17
18	29	e	Pet. & Paul	18		43		17
19	30	f	Lucina	19		43		17
20	July		6 Sup. Tri.	20	3	44	3	16
21	2	a	Viſit. V. M.	21		44		16
22	3	b	Cornelius	22		45		15
23	4	c	Uricus	23		45		15
24	5	d	Anſelm B.	24		46		14
25	6	e	Tranquil.	25		46		14
26	7	f	*Tho. Becket*	26		47		13
27	8	G	7 Sup. Tri.	27		48		12
28	9	a	Cyrillus	28		49		11
29	10	b	7 Fratres	29		50		10
30	11	c	Benedict.	30	3	51	3	9

at a certain convenient diſtance, theſe Seconds compared with the Seconds betwixt the Lightning and the Thunder, will nearly determine the Diſtance thereof; for the leſs Time there is betwixt the Lightning and the Thunder-clap, nearer muſt the Place of ſuch Eruption or Exploſion be to them that ſo ſee and hear it, therefore the more dangerous; and the greater Time betwixt the Lightning and the Thunder-clap, ſheweth that the Cloud from whence they proceed is ſo much the farther diſtant, and therefore the Danger leſs, the Force being in ſome meaſure abated. *Anno* 1697, *April* the 23d, there was terrible Thunder and Lightning, the Thunder follow'd very cloſe, and ſome Sheep within a Mile of this Place were kill'd therewith; the Wooll were ſome of it torn

July hath XXXI Days.

☽ Firſt Quarter the 1ſt day at 9 in the morning.
● Full Moon the 8th day at 9 in the morning.
☾ Laſt Quarter the 15th day at 1 in the morning.
● New Moon the 22d day at 9 at night.
☽ Firſt Quarter the 30th day at 10 at night.

1	g	☽ pr. Spicam ♍	libra	21	10	A42	
2	a	☽ pr. Lanx auſt.	ſcorp	3	11	0	
3	b	☽ pr. Lanx Bore.	ſcorp.	16	11	25	
4	C	3 Sun. aft. Trin.	ſagit.	0	11	57	
5	d	♄ ♈ 4 St. ad ℞	ſagit.	14	12	49	Moon's ſetting.
6	e	♃ ♍ 8.	ſagit.	28	0	M49	
7	f	*Thomas à Becket*	capr.	13	2	25	
8	g	♂ ♋ 15.	capr.	28	Full ●		
9	a	♀ ♊ 29.	aquar.	12	8	A41	
10	b	☿ ♋ 10.	aqua.	27	8	57	
11	C	4 Sun. aft. Trin.	piſces	13	9	14	
12	d	Sol in Leone	piſces	27	9	35	
13	e	☊ ♑ 7.	aries	11	9	49	
14	f	☽ pr. pri. ⚹ ariet.	aries	25	10	12	
15	g	St. Swithun	taurus	9	10	32	
16	a	☽ pr. Pleiades	taurus	22	10	57	
17	b	☽ pr. Aldebaran	gemini	4	11	30	
18	C	5 Sun. aft. Trin.	gem.	17	12	20	
19	d	Dog-days begin	gem.	29	0	M20	Moon's riſing.
20	e	☽ prope Caſtor	canc.	11	1	21	
21	f	☽ pr. luc caud. ♋	canc.	23	2	33	
22	g	Mary Magdalen	leo	5	New ●		
23	a	☽ pr. caput Leon.	leo	17	7	A41	
24	b	☽ pr. Cordem ♌	leo	29	7	55	
25	C	St. James	virgo	11	8	7	
26	d	☽ pr. auſ. ala. ♍	virgo	23	8	19	
27	e	☽ pr. Vindemiat	libra	5	8	33	
28	f	☽ pr. Spic. virg.	libra	17	8	47	
29	g	☽ pr. Lanx auſt.	ſcorp.	0	9	3	
30	a	☽ pr. Lanx Borea	ſcorp.	12	9	27	
31	b	☽ pr. Bor. fron. ♏	ſcorp.	25	10	5	

Driſling Rain o Showers at the beginning, then hot and dry for a Day or two, but □ ♄ ☿ ſoon turns to Showers again, ⚹ ♃ ☿ and very probably Thunder therewith about this time; then □ ♄ ♀ we may expect an Increaſe of hot and dry △ ☉ ♄. ☌ ♂ ☿. Weather, and to ⚹ ♃ ♀ continue good Harveſt Weather, with now and then ſome light Showers; △ ♄ ☿ otherwhiles ſome cool Winds, but of ſhort continuance, and for the moſt part hot and dry, and ☌ ☉ ☿ very ſultry about the end of the Month.

Term ends

SAUNDER. July, 1731.

Saturn *at the beginning riſes between* 10 *and* 11 *at night, at the end between* 9 *and* 10. Jupiter *at the beginning ſets about* 10 *at night, at the end about* 9. Mars *and* Mercury *lie both hid under the Sun Beams.* Venus *riſes about* 2 *in the morning.*

Eng. Account.	For. Accoun.	Rom. Kalend.	Rom. Sts. days.						
1	12	d	Nab, *&c.*	from the Backs of the	1	3	52	8	8
2	13	e	Henricus	Sheep, and ſome little	2		53		7
3	14	f	Bonavent.	Holes made in the Ground	3		54		6
4	15	G	8Su.p.Tri.	where they lay, and a very	4		55		5
5	16	a	Kenelm	ſtrong ſulphurous Smell	5		56		4
6	17	b	Hilarius	remained, both upon the	6		58		2
7	18	c	Maternus	Sheep and the Earth where	7	3	59	8	1
8	19	d	Ruffina	they lay dead. In the Year	8	4	0	8	0
9	20	e	Margaret	1701, *June* the 5th, ter-	9		1	7	59
10	21	f	Praxeda	rible Thunder and Light-	10		3		57
11	22	G	9Su.p.Tri.	ning, and great Hail-ſtones	11		5		55
12	23	a	Apollinus	in many Places, and at *Up-*	12		6		54
13	24	b	Chriſtiana	*pingham* in *Rutland* a very	13		7		53
14	25	c	St. James	great May-pole, with the	14		9		51
15	26	d	Anna	Lightning, was twiſted,	15	4	10	7	50
16	27	e	Martha	torn and ſhiver'd into more	16		11		49
17	28	f	Panthol.	than 1000 pieces, the Light-	17		12		48
18	29	G	10Su.p.T	ning and Thunder-clap hap-	18		14		46
19	30	a	Abdon	pening almoſt at the ſame	19		16		44
20	31	b	Germanus	time, which ſhews that the	20		17		43
21	Aug.		Lammas	Cloud muſt be very near	21		18		41
22	2	d	Moſes	from whence they proceed-	22		20		40
23	3	e	Dominic.	ed. As to the Cauſes of	23		21	7	38
24	4	f	Ariſtarch.	Thunder and Lightning,	24		23		36
25	5	G	11Su.p.Tr	there are various Opinions,	25	4	25		35
26	6	a	Sixtus	ſome will not allow that	26		27		33
27	7	b	Syriacus	they proceed from natural	27		29		31
28	8	c	Romanus	Cauſes, others which do,	28		31		29
29	9	d	Theodoſ.	have very different Opini-	29		33		27
30	10	e	Laurence	ons thereof, omitting moſt	30	4	35		25
31	11	f	Titus	of	31		37		23

Auguſt hath XXXI Days.

● Full moon the 6th day at 5 in the Afternoon.
☾ Laſt Quarter the 13th day at 11 in the morning.
● New moon the 21ſt day at 1 in the Afternoon.
☽ Firſt Quarter the 29th day at 9 in the morning.

1	C	7 Sun. aft. Trin.	ſagit.	8	10 A	52	☽'s ſetting.
2	d	☽ pr. ſin. man. ♐	ſagit.	22	11	50	
3	e	☽ pr. ult. Cap. ♐	capr.	6	13	5	
4	f	☽ pr. bor. Corn. ♑	capr.	21	1 M	5	
5	g	☽ pr. luc. man. ♒	aqua.	6	2	52	
6	a	☽ pr. dex cru. ♒	aqua.	21	Full	●	
7	b	☽ pr. dex. man. ♒	piſces	6	7 A	12	
8	C	8 Sun. aft. Trin.	piſces	22	7	30	
9	d	♄ ♈ 3 ℞.	aries	6	7	48	
10	e	St. Laurence	aries	21	8	6	
11	f	♃ ♍ 15.	taur.	5	8	30	Moon's riſing.
12	g	☉ in Virgine	taur.	18	9	0	
13	a	♂ ♌ 9.	gem.	1	9	38	
14	b	♀ ♌ 13.	gem.	14	10	5	
15	C	9 Sun. aft. Trin.	gem.	26	11	33	
16	d	☿ ♍ 20.	canc.	8	12	27	
17	e	♂ ♑ 5.	canc:	20	0 M	27	
18	f	☽ prope Aſellos	leo	2	1	24	
19	g	☽ pr. auſ. cap. ♌	leo	14	2	35	
20	a	☽ pr. cord. Leon.	leo	26	3	52	
21	b	☽ pr. caud. Leon.	virgo	8	New	●	
22	C	10 Sun. aft. Trin.	virgo	20	6 A	35	
23	d	☽ pr. Vindemiat.	libra	2	6	48	Moon's riſing.
24	e	St. Bartholomew	libra	14	7	3	
25	f	☽ pr. auſ. veſt. vir.	libra	26	7	22	
26	g	☽ prope Lances	ſcorp.	9	7	47	
27	a	Dog-days end	ſcorp.	22	8	15	
28	b	☽ pr. cordem ♏	ſagit.	4	9	5	
29	C	11 Sun. aft. Trin.	ſagit.	18	9	41	
30	d	☽ pr. pri. cap. ♐	capric.	1	10	57	
31	e	☽ pr. ult. cap. ♐	capr.	15	12	12	

Lammas

Hot Weather at the beginning, but not without △ ♄ ♂ frequent △ ♄ ♀ Showers; ☌ ♂ ♀ but after the Full Moon more dry and ſettled Harveſt Weather till the 15th or 16th days which produce ☌ ♃ ☿ windy and ſhowery Weather for ſome Days; alſo ſome miſty Mornings & hot Afternoons, followed with calm and hot ſultry Weather about this time ☍ ♄ ☿ Now ſome high Winds are expected, bringing driſling Rain or Showers therewith, and continues droping to the end.

Saturn *at the beginning is ſouth between* 2 *and* 3 *in the morning, at the end about* 1. Jupiter *is hid, going to Combuſtion.* Mars *and* Venus *riſe very near together between Three and* 4 *in the morning.* Mercury *ſets after the Sun.*

Eng. Account.	For. Account.	Rom. Kalend.	Rom.Sts.days.						
1	12	G	12Su.p.Tr.	of which, I ſhall come to	1	4	39	7	21
2	13	a	Amatus	the moſt probable Cauſe;	2		41		19
3	14	b	Euſebius	which is, when many ni-	3		4		18
4	15	c	Aſ. V. M.	trous and ſulphurous Exha	4		4		16
5	16	d	Hyacinth.	lations are raiſed into the	5		46		14
6	17	e	Agapitus	middle Region of the Air,	6		48		12
7	18	f	Helena	and by a ſudden Condenſa-	7		5		10
8	19	G	13Su.p.Tr	tion of moiſt and watry	8		52		8
9	20	a	Bernard	Vapours are incloſed and	9		54		6
10	21	b	Athanaſius	pent up in a thick Cloud.	10		56		4
11	22	c	Syphora	theſe nitrous and ſulphu	11	4	58	7	2
12	23	d	Zacheus	rous Particles taking fire,	12	5	0	7	0
13	24	e	S. Barthol	break forth with great Vi-	13		2	6	58
14	25	f	Severinus	olence, much like to Gun-	14		3		57
15	26	G	14Su.p.Tr	powder when fired, which	15		5		55
16	27	a	Ruffus	violent Eruption cauſeth	16		7		53
17	28	b	Auguſtin	the Noiſe which we call	17		8		52
18	29	c	Dec. J B p	Thunder; and the Fire, *viz*	18		10		5
19	30	d	Felix	the Lightning, thus break-	19		12		48
20	31	e	Paulinus	ing out, is the Bolt or Shot	20		14	6	46
21	Sept.		Ægidius	that generally doth the	21		16		44
22	2	G	15Su.p.Tr	Miſchief, and not a Stone	22		18		42
23	3	a	Mamert.	Bolt, as many have fondly	23		20		40
24	4	b	Theodoſia	imagin'd; and the greater	24		22		38
25	5	c	Zacharius	the Quantity of theſe fiery	25		24		36
26	6	d	Magnus	Particles, and the more	26		26		34
27	7	e	Regina	ſtrongly and cloſely they	27		28		32
28	8	f	Nat.V.M.	are pent together, the more	28		30		30
29	9	G	16Su.p.Tr.	terrible the Thunder and	29		32		28
30	10	a	Hilarius	Lightning; as in Gun-	30	5	34	6	26
31	11	b	Felix	B 4 powder.	31		36		2

September hath XXX Days.

● Full moon the 4th day at midnight.
☾ Laſt Quarter the 11th day at midnight.
● New moon the 20th day at 5 in the morning.
☽ Firſt Quarter the 27th day at 6 at night.

1	f	☽ pr.auſ.corn♑	capr.	29	0M	12	☽'s ſetting.	The Month begin
2	g	☽ pr.luc.caud♑	aquar.	14	1	41		☌ ☉ ♃ fair an
3	a	☽ pr.dex.gru ♒	aqua.	29	3	4		dry, and tolerabl
4	b	☽ pr. Merchab.	piſces	15	4	44		good Weather
5	C	12 Sun.aft.Trin.	piſces	29	Full	●		for the latter
6	d	☽ pr.Vent. Cete	aries	15	6A	18		Harveſt, but
7	e	☽ pr. prim.✱♈	aries	29	6	43		not without
8	f	☽ pr.caud.ariet	taur.	14	7	9		Showers about
9	g	☽ prop Pleiades	taur.	27	7	47		the Full Moon.
10	a	☽ pr.corn.taur.	gem.	10	8	28	Moon's riſing.	Now ſome cold
11	b	Sol in Libra	gem.	23	9	26		Winds, and dril
12	C	13 Sun.aft.Trin.	canc.	5	10	27		ling, & ſhowery
13	d	☽ pr. Pollux	canc.	17	11	30		☍ ☉ ♄ therewith
14	e	Exalt. Crucis	canc.	29	12	44		then follows ſome
15	f	Ember Week	leo	11	0M	44		☌ ♃ ♀ calm,warm
16	g	♄ ♈ 1. ℞.	leo	23	1	53		& pleaſant Days
17	a	♃ virgo 23.	virgo	5	2	5		alſo ſome gentle
18	b	♂ virgo 1.	virgo	17	4	2		✱ ♂ ☿ froſty
19	C	14 Sun.aft.Trin.	virgo	29	5	7		Mornings, and
20	d	♀ virgo 29.	libra	11	New	●		pleaſant After-
21		St. Matthew	libra	23	5A	35		☍ ♄ ♀ noons;
22	f	☿ ♏ 2.	ſcorp.	6	5	59	Moon's ſetting.	then follows ſome
23	g	☊ ♑ 3.	ſcorp.	18	6	33		cloudy, cloſe, and
24	a	☽ pr. cordem ♏	ſagit.	1	7	7		raw Weather,
25	b	☽ dex.gen oph.	ſagit.	14	7	55		afterward ſome
26	C	15 Sun.aft.Trin.	ſagit.	28	8	52		briſk Winds, rai
27	d	☽ pr.ult. cap. ♐	capri.	11	10	1		ſing more heavy
28	c	☽ pr. cornu ♑	capri.	25	11	21		Showers, and
29	f	St. Michael	aquar.	9	12	54		continues ſhowery
30	g	☽ pr.dex.gru ♒	aqua.	23	0M	54		to the end.

Saturn *at the beginning is ſouth between* 12 *and* 1 *in the morning, at the end between* 11 *and* 12 *at night.* Jupiter *at the beginning is combuſt.* Mars *riſes about* 3 *in the morning.* Venus *is hid, going to Combuſtion.* Mercury *may be ſeen ſetting after the Sun.*

Eng. Account.	For. Account.	Rom. Kalend.	Rom. Sts. days.						
1	12	c	Tobias	powder, the more ſtrongly	1	5	38	6	22
2	13	d	Amatus	it is incloſed when fired,	2		40		20
3	14	e	Exalt. Cru.	the greater is the Eruption;	3		42		18
4	15	f	Nicomed.	but Gunpowder fir'd in the	4		44		16
5	16	G	17 Su. p. Tr.	open Air, unconfin'd, ma-	5		46		14
6	17	a	Lampert	keth little Noiſe, and ſtri-	6		48		12
7	18	b	Januarius	keth with little Force,	7		50		10
8	19	c	Vict. *&c.*	compar'd with what it doth	8		52	5	8
9	20	d	Fauſta	when confin'd. And that	9		54		6
10	21	e	S. Matthew	theſe nitro-ſulphureous Ex-	10		56		4
11	22	f	Mauritius	halations when fir'd, break	11	5	58	6	2
12	23	G	18 Su. p. Tr.	forth and ſtrike downwards	12	6	0	6	0
13	24	a	Rupert	(tho' generally obliquely or	13		2	5	58
14	25	b	Cleophas	ſlanting)towards the Earth,	14		4		56
15	26	c	Cyprianus	ſeemeth evident, for that	15		6		54
16	27	d	Coſ. & Da.	we never, or at leaſt very	16		8		52
17	28	e	Wincella	rarely, have great Thun-	17		10		50
18	29	f	S. Michael	der-claps without Light-	18		12		48
19	30	G	19 Su. p. Tr.	ning, which might often	19		14		46
20	Octo.		Remigius	be, was the Breach or Erup-	20	6	16	5	44
21	2	b	Leodegar	tion from or thro' the top	21		18		42
22	3	c	Maximin.	of the Cloud upwards to-	22		20		40
23	4	d	Francis	wards Heaven, then might	23		22		38
24	5	e	Fides	we hear the Report, but	24		24		36
25	6	f	Marcus	not ſee the Fire or Light-	25		26		34
26	7	G	20 Su. p. Tr.	ning; but that this hap-	26		28		32
27	8	a	Pelagia	peneth not, is for this rea-	27		30		30
28	9	b	Dionyſius	ſon, that the upper Parts	28		32		28
29	10	c	Burchard	of theſe great Clouds inclo-	29		34		26
30	11	d	Gideon	ſing this combuſtible Mat-	30	6	36	5	24
				ter,					

October hath XXXI Days.

● Full moon the 4th day at 9 in the morning.
☾ Laſt Quarter the 11th day at 5 in the Afternoon.
● New moon the 19th day at 9 at night.
☽ Firſt Quarter the 27th day at 3 in the morning.

1	a	☽ pr. auſ. cap. ♓	piſces	8	2 M	24
2	b	☽ auſ. caud. Cete	piſces	23	3	56
3	C	16 Sun. aft. Trin.	aries	8	5	9
4	d	☽ pr. pri. ✳ ariet.	aries	23	Full ●	
5	e	☽ pr. Manker	taur.	8	5 A	16
6	f	☽ pr. Pleiades	taur.	22	5	51
7	g	☽ pr. Aldebaran	gem.	5	6	36
8	a	☽ pr. auſ. corn. ♉	gem.	18	7	22
9	b	☽ pr. luc. ped. ♊	canc.	1	8	25
10	C	17 Sun. aft. Trin.	canc.	14	9	28
11	d	K. Geo. 2. Coron.	canc.	26	10	41
12	e	Sol in Scorpione	leo	8	11	54
13	f	♄ ♓ 29 ℞	leo	20	12	58
14	g	♃ ♍ 29.	virgo	1	0 M	58
15	a	♂ ♍ 18.	virgo	13	2	5
16	b	♀ ♏ 2.	virgo	25	3	16
17	C	18 Sun. aft. Trin.	libra	7	4	25
18	d	St. Luke	libra	20	5	35
19	e	☿ ♎ 19.	ſcorp.	2	New ●	
20	f	☊ ♑ 2.	ſcorp.	15	4 A	39
21	g	☽ pr. bor. fron. ♏	ſcorp.	28	5	12
22	a	☽ dex. gen. Oph.	ſagit.	11	6	2
23	b	Term begins	ſagit.	25	6	54
24	C	19 Sun. aft. Trin.	capri.	8	7	59
25	d	☽ pr. auſ. corn. ♑	capri.	22	9	7
26	e	☽ luc. in man. ♒	aqua.	6	10	34
27	f	☽ pr. ſeq Terg. ♑	aqua.	20	12	1
28	g	S. Simon & Jude	piſces	4	0 M	1
29	a	☽ pr. Merchab	piſces	18	1	31
30	b	K. Geo. 2. Nat.	aries	3	2	53
31	C	20 Sun. aft. Trin.	aries	17	4	15

Moon's riſing.

Moon's ſetting.

Cold driſling Rain or Showers, then fair for a Day or two, bu about the 6th o ☌ ☉ ☿ 7th Days high Winds and ☌ ♄ ☿ ſtormy Weather, then follows ſome briſk Froſts ☍ ♄ ♃ for 2 or 3 Days, afterwards windy and ſtormy Weather is expected, and may probably continue till after the New Moon, then more ſharp ☌ ☉ ♀ and froſt for ſome Days, otherwhiles ſome cold, raw, and moiſt Weather, and is likely to continue ſhowery ☌ ♄ ♂ to the end.

SAUNDER. October, 1731.

Saturn *at the beginning is ſouth between* 10 *and* 11 *at night, at the end between* 9 *and* 10. Jupiter *emergeth, riſirg before the Sun.* Mars *riſes about* 3 *in the morning.* Venus *and* Mercury *are both combuſt.*

	For. Account.	Rom. Kalend.	Rom. Sts. days.						
1	12	e	Coleman	ter, are (by the Cold of the	1	6	39	5	21
2	13	f	Edward	Region above them) more	2		41		19
3	14	G	21 Su.p.Tr.	thick, denſe and compact	3		43		17
4	15	a	Severus-	than the lower Parts of	4		45		15
5	16	b	Gallus	them, and thereby more	5		48		12
6	17	c	Florentius	able to reſiſt and repel thoſe	6		50		10
7	18	d	St. Luke	nitro-ſulphureous Exhala-	7		52		8
8	19	e	Ptolomy	tions, which being fired,	8		54		6
9	20	f	Wendelin.	do therefore break forth	9		56		4
10	21	G	22 Su.p.Tr	through the thinner and	10	6	58	5	2
11	22	a	40 V. Mar.	weaker Parts, *viz.* the Side	11	7	0	5	0
12	23	b	Romanus	and lower Parts of the	12		2	4	58
13	24	c	Salome	Clouds, and ſtrike down	13		4		56
14	25	d	Criſpin.	towards the Earth. Some-	14		6		54
15	26	e	Amandus	times the Thunder is heard	15		8		52
16	27	f	Urſula	to make a roaring Noiſe,	16		10		50
17	28	G	23 Su.p.Tr	St. Simon & Jude.) and	17		12		48
18	29	a	Narciſſus	ſeems to run from one ſide	18		14		46
19	30	b	Theoneſt.	of the Cloud to the other,	19		16		44
20	31	c	Wolfgan.	and at laſt happeneth a	20	7	18	4	42
21	Nov.		All Saints	very great Crack or Clap;	21		20		40
22	2	e	All Souls	this is cauſed by ſome part	22		22		38
23	3	f	Theophil.	of the nitro ſulphureous	23		23		37
24	4	G	24 Su.p.Tr	Matter being drawn out	24		25		35
25	5	a	Lætus	at length, and more thin-	25		27		33
26	6	b	Leonard	ly diſperſed through the	26		29		31
27	7	c	Wilibald	Clouds, which like a Train	27		31		29
28	8	d	Severus	laid, or leading to a Mine	28		33		27
29	9	e	Theodore	or Magazine of Gunpow-	29		35		25
30	10	f	Martin P.	der, which being fir'd,	30	7	36	4	24
31	11	G	25 Su.p.Tr.	burneth,	31		38		22

November hath XXX Days.

● Full Moon the 2d day at 9 at night.
☾ Laſt Quarter the 10th day at 2 in the Afternoon.
● New Moon the 18th day at Noon.
☽ Firſt Quarter the 25th day at 10 in the morning.

1	d	All Saints	taur.	1	5M	49		Cloudy, cloſe, &
2	e	All Souls	taur.	16	Full ●			driſling, then
3	f	☽ pr. Aldebaran	gem.	0	4A	24		ſome mild and
4	g	☽ pr. cornu ♉	gem.	13	5	7		pleaſant Days,
5	a	Gunpowder Plot	gem.	26	6	8	Moon's riſing.	followed with
6	b	☽ pr. Vent. II.	canc.	9	7	10		△ ♄ ♀ ſharp
7	C	21 Sun. aft. Trin.	canc.	22	8	16		☌ ♃ ♂ and froſty
8	d	☽ pr. Aſſellos	leo	4	9	28		Weather, and
9	e	☽ pr. auſ. cap. ♌	leo	16	10	37		continues ſharp
10	f	☽ pr. cordem ♌	leo	28	11	50		△ ☉ ♄ and very
11	g	St. Martin	virgo	9	12	55		⚹ ♃ ♀ Winter-
12	a	Sol in Sagittar.	virgo	21	0M	55		⚹ ♂ ♀ like;
13	b	☽ pr. Vindemiat.	libra	3	1	58		alſo high Winds,
14	C	22 Sun. aft. Trin.	libra	16	3	10		bringing plenty
15	d	♄ ♓ 28 ℞.	libra	28	4	28		of Snow or
16	e	♃ ♎ 5.	ſcorp.	11	5	39		cold Rain
17	f	St. Hugh	ſcorp.	24	6	50		△ ♄ ♀ . ⚹ ☉ ♃.
18	g	♂ ♎ 18.	ſagit.	7	New ●			about the New
19	a	♀ ♐ 14.	ſagit.	20	4A	41		Moon, and in all
20	b	☿ ♐ 4.	capri.	4	5	38		probability
21	C	23 Sun. aft. Trin.	capr.	18	6	35	Moon's ſetting.	will continue
22	d	☊ ♐ 12.	aqua.	2	8	5		⚹ ♃ ☿ very
23	e	☽ pr. luc. caud. ♑	aqua.	16	9	30		⚹ ☉ ♂ rough
24	f	☽ dex. hum. ♒	piſces	1	10	58		Winter-like
25	g	☽ pr. Merchab	piſces	15	12	36		Weather, with
26	a	☽ pr. Algenib	piſces	29	0M	36		⚹ ♂ ♀ plenty
27	b	☽ pr. Vent. Ceti	aries	13	1	53		of Downfall,
28	C	Advent Sunday	aries	27	3	14		and high Winds
29	d	Term ends	taur.	11	4	45		☌ ☉ ☿ therewith,
30	e	St. Andrew	taur.	25	5	54		to the end of the
								□ ♄ ♀ Month.

SAUNDER, November, 1731.

Saturn *at the beginning is ſouth between* 8 *and* 9 *at night, at the end about* 7, *and then ſets about* 1 *in the morning.* Jupiter *and* Mars *riſe very near together between* 2 *and* 3 *in the morning.* Venus *is ſtill in Combuſtion, and* Mercury *towards the end is ſo.*

Eng. Account.	For. Account.	Rom. Kalend.	Rom.Sts.days.						
1	12	a	Ludovicus	burneth, and runneth on	1	7	39	4	21
2	13	b	Aſcanius	gradually till it comes to	2		41		19
3	14	c	Fredericus	the greater Quantity, which	3		43		17
4	15	d	Leopold	at laſt cauſeth that vio-	4		45		15
5	16	e	Edmundus	lent Eruption and Noiſe.	5		46		14
6	17	f	Hugo	It may ſeem very ſtrange	6		48		12
7	18	G	26 Su.p.Tr.	to ſuch as are altogether	7		50		10
8	19	a	Eliſabeth	unacquainted with Chy-	8		51		9
9	20	b	Eugenius	mical Preparations, that	9		52		8
10	21	c	Ob. V. M.	theſe Nitro - ſulphureous	10	7	54	4	6
11	22	d	Cœcilia	Particles ſhould be ſo in-	11		55		5
12	23	e	Clement	cloſed in a Cloud, as when	12		57		3
13	24	f	Chryſog.	taking fire they ſhould	13	7	58		2
14	25	G	27 Su.p.Tr.	break out with ſuch ex-	14	8	0	4	0
15	26	a	Conradus	tream Violence; but if	15		1	3	59
16	27	b	Guntherus	they conſider only the	16		2		58
17	28	c	Rufus	mighty Force of Gun-	17		4		56
18	29	d	Saturnus	powder, the other need	18		5		55
19	30	e	S. Andrew	not ſeem ſtrange to them.	19		6		54
20	Dece.		Longinus	That there is ſometimes	20		7		53
21	2	G	Adv. Sund	much more Lightning, and	21		8	3	52
22	3	a	Caſianus	a greater Appearance of	22	8	9		51
23	4	b	Barbara	Fire with the Thunder,	23		10		50
24	5	c	Sabina	than at other times, ari-	24		11		49
25	6	d	Nicholas	ſeth from this, that there	25		12		48
26	7	e	Agatha	is more Abundance of the	26		13		47
27	8	f	Con. V. M.	Sulphur than of the Nitre;	27		14		46
28	9	G	2 S. in Adv.	at other times there is	28		15		45
29	10	a	Eulalia	leſs Lightning with the	29		15		45
30	11	b	Damaſcus	Thunder, which ſheweth	30	8	16	3	44
				the					

December hath XXXI Days.

● Full moon the 2d day at Noon.
☾ Laſt Quarter the 10th day at Noon.
● New moon the 18th day at 1 in the morning.
☽ Firſt Quarter the 24th day at 7 at night.

1	f	☽ pr. Aldebaran	gem.	8	6M	51	
2	g	☽ eclips'd inviſ.	gem.	21	Full	●	
3	a	☽ pr. luc. ped. ♊	canc.	4	4A	41	
4	b	☽ pr. Pollux	canc.	17	5	51	
5	C	2 Sund. in Adv.	canc.	29	6	57	Moon's riſing.
6	d	☽ pr. cap. Leon.	leo	12	8	3	
7	e	☽ pr. cord. Leon.	leo	24	9	17	
8	f	♄ ♓ 28 D.	virgo	6	10	25	
9	g	♃ ♎ 8.	virgo	17	11	36	
10	a	♂ ♎ 21.	virgo	29	12	47	
11	b	Sol in Capricorn	libra	11	0M	47	
12	C	3 Sund. in Adv.	libra	24	1	55	
13	d	Lucia Virg.	ſcorp.	6	3	9	
14	e	♀ ♑ 16.	ſcorp.	19	4	20	
15	f	Ember Week	ſagit.	2	5	26	
16	g	☿ ♑ 15.	ſagit.	15	6	31	
17	a	☉ eclips'd inviſ.	ſagit.	29	7	25	
18	b	☋ ♐ 28.	capri.	13	New	●	
19	C	4 Sund. in Adv.	capri.	28	5A	51	
20	d	☽ pr. auſ. corn. ♑	aquar.	12	7	11	
21	e	St. Thomas	aquar.	27	8	35	Moon's ſetting.
22	f	☽ pr. auſ. cap. ♓	piſces	11	10	7	
23	g	☽ pr. Algenib	piſces	26	11	28	
24	a	☽ pr. caud. Cete	aries	10	12	51	
25	b	Nativ. of Chriſt	aries	24	0M	51	
26	C	St. Stephen	taurus	8	2	15	
27	d	St. John	taur.	21	3	27	
28	e	Innocents	gem.	4	4	37	
29	f	☽ pr. auſ. corn. ♉	gem.	17	5	41	
30	g	☽ pr. luc. ped. ♊	canc.	0	6	40	
31	a	Silveſter	canc.	13	7	31	

Sharp Froſts, with Wind and Snow, at the beginning; □ ♄ ☿ then yielding, with plenty of Moiſture, □ ♃ ♀. □ ☉ ♄. either cold Rain or Snow; alſo windy and □ ♃ ☿ turbulent, and continues ſo for ſome time; then ſome cloudy, cloſe, and more temperate; but the New Moon □ ☉ ♃ bringeth more windy and tempeſtuous Weather; after that it will ✶ ♄ ♀. □ ♂ ☿ ✶ ♄ ☿. ☌ ♀ ☿ □ ♂ ♀. be ſomewhat mild, but miſty, cloſe, an foggy Weather a the end of the Yea

SAUNDER. December, 1731.

Saturn *at the beginning ſets about Midnight, at the end about* 11 *at night.* Jupiter *at the beginning riſes about* 1 *in the morning, at the end between* 11 *and* 12 *at night.* Mars *riſes about* 1 *in the morning.* Venus *and* Mercury *are both hid under the Sun Beams.*

the greater Plenty of Nitre, and then oftentimes the more vehement is the Blow; for the great Force of the Thunder-bolt, or Stroke of Lightning, depends not on Sulphur alone, or on Nitre alone, but on both mixed together. Sulphur indeed quickly takes Flame, but burns ſlowly, but Nitre is not eaſily inflamed, but being once ſet on fire, it burns very quickly, and as it were in a Moment; and therefore it is from Sulphur and Charcoal that Gunpowder doth ſo ſoon take fire.

Eng. Account.	For. Account.	Rom. Kalend.	Rom. Sts. days.					
1	12	c	Valerius	1	8	16	3	44
2	13	d	Lucia V.	2		17		43
3	14	e	Nicaſius	3		17		43
4	15	f	Abraham	4		17		43
5	16	G	3 S. in Adv.	5		18		42
6	17	a	Lazarus	6		18		42
7	18	b	Rufus	7		18		42
8	19	c	Loth	8		19		41
9	20	d	Ammon	9		19		41
10	21	e	S. Thomas	10		19		41
11	22	f	30 Mart.	11	8	19	3	41
12	23	G	4 S. in Adv.	12		19		41
13	24	a	*Adam & Eve*	13		19		41
14	25	b	Chriſtmas	14		19		41
15	26	c	St. Stephen	15		18		42
16	27	d	St. John	16		18		42
17	28	e	Innocents	17		18		42
18	29	f	Jonathan	18		17		43
19	30	G	1 S. p. Chri.	19		17		43
20	31	a	Silveſter,	20	8	16	3	44
21	Jan. 1732.		Circu.	21		16		44
22	2	b	Abel	22		15		45
23	3	c	Enoch	23		15		45
24	4	d	Methuſal.	24		14		46
25	5	e	Simeon	25		13		47
26	6	f	Epiphany	26		12		48
27	7	G	Juliana	27		11		49
28	8	a	Echard	28		10		50
29	9	b	Marcellus	29		9		51
30	10	c	Nicanor	30	8	8	3	52
31	11	d	Higinus	31		7		5

A TABLE

A TABLE ſhewing how many Years Purchaſe a Leaſe or Annuity (to endure for any number of Years under 33) is worth preſently, at Intereſt upon Intereſt, at Six in the Hundred; and ſhewing plainly how to diſcount any Leaſe in being, and the value of the Reverſion after any number of Years.

Years of a Leaſe.	Years.	Months.	10th parts.
1	0	11	0
2	1	9	9
3	2	8	1
4	3	5	9
5	4	2	5
6	4	11	1
7	5	7	0
8	6	2	7
9	6	9	9
10	7	4	3
11	7	10	7
12	8	4	6
13	8	10	3
14	9	3	6
15	9	8	5
16	10	1	3
17	10	5	8
18	10	9	3
19	11	1	9
20	11	5	7
21	11	9	3
22	12	0	5
23	12	3	6
24	12	6	6
25	12	9	4
26	13	0	0
27	13	2	5
28	13	4	9
29	13	7	1
30	13	9	2
31	13	11	1
32	14	1	0

The Uſe and Explanation of the TABLE.

The firſt Column towards the left Hand, ſheweth the Years of a Leaſe, or Annuity; and right againſt each Year, is the Years, Months, and Tenth Parts of a Months Purchaſe, that ſuch a Leaſe or Annuity is worth.

Example.

Suppoſe a Leaſe or Annuity to continue 12 *Years, and you would know how many Years Purchaſe it is worth in preſent Money, look in the Table for Twelve Years of a Leaſe to the Left Hand, and againſt the ſame you ſhall find* 8, 4, 6, *which ſheweth that ſuch a Leaſe is worth* 8 *Years,* 4 *Months, and* 6 *Tenth Parts of a Months Purchaſe.*

AGAIN,

If you are to take or buy the Reverſion of any Leaſe or Annuity, work thus: Suppoſe the Leaſe to be thirty Years in all, you find in the Second Table and Right Hand againſt Thirty, 13 Years, 9 Months, and 2 Tenth Parts of a Months Purchaſe, this it were worth were it in preſent Poſſeſſion. But ſuppoſe there be a Leaſe of five Years (more or leſs) before you commence, look in the Table againſt the five Years, and there you find 4 Years, 2 Months, and 5 Tenth parts of a Months Purchaſe: Take this out of the Sum againſt Thirty, which is, 13, 9, 2. the Remainder is, 9, 6, 7, which is 9 Years, 6 Months, and 7 Tenth Parts of a Month; and ſo much is the Reverſion after 5 Years, worth the Remainder of 30 Years.

This is Uſeful, and very Eaſie.

SAUNDER, 1731.

The SECOND PART.

Containing the Eclipſes; the Suns Quarterly Ingreſſes; the Southing of the 7 Stars for every 5th Day of this Year; with Directions for finding the Riſing, Southing and Setting of ſeveral Fixed Stars: As alſo, Rules & Tables to meaſure *Timber*: And other Things worth Obſervation.

The Characters of the Twelve Signs, and what parts of the Body they are ſaid to govern.

♈ Aries, *Head & Face*; ♉ Taurus, *Neck & Throat*; ♊ Gemini, *Arms & Shoulders*; ♋ Cancer, *Breaſt & Stomach*; ♌ Leo, *Heart & Back*; ♍ Virgo, *Bowels & Belly*; ♎ Libra, *Reins & Loins*; ♏ Scorpio, *Secrets*; ♐ Sagittary, *Thighs*; ♑ Capricorn, *Knees*; ♒ Aquarius, *Legs*; ♓ Piſces, *the Feet*.

The Characters of the planets, with the Dragons Head and Tail, ♄ Saturn, ♃ Jupiter, ♂ Mars, ☉ Sol, ♀ Venus, ☿ Mercury, ☽ Moon, ☊ Dragons Head, ☋ Dragons Tail.

The Aſpects.

☌ Conjunction, ✱ Sextile, □ Quartile, △ Trine, ☍ Oppoſition.

A Brief Chronology of Memorable Things, to this Year, 1731.

Since	THE Creation of the World	5680
	Noah's Flood	4024
	The Deſtruction of *Sodom* and *Gomorrah*	3633
	The Deſtruction of *Troy*	2913
	Brute entred this Iſland	2838
	The Building of *London*	2838
	The Building of *York*	2720
	The Building of *Leiceſter*	2674
	The Building of *Canterbury*	2623
	The Building of *Stamford*	2594
	The Building of *Rome*	2483
	The Deſtruction of *Jeruſalem* by *T. Veſp.*	1644
	England firſt received the Chriſtian Faith	1551
	The Tower of *London* built	1166
	Duke *William* conquered *England*	665
	Weſtminſter Hall was built	632
	The Bible divided into Chapters	536

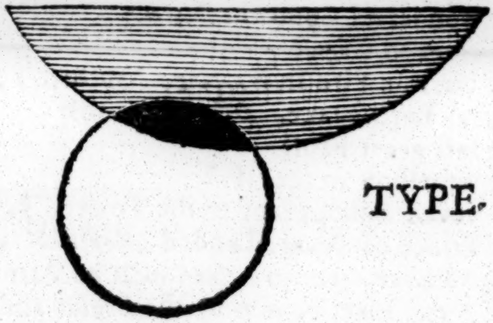
Since	The Invention of Guns	353
	The Art of Printing	291
	St. *Pauls* Steeple fired	17
	New Star in *Caſſiopeia*	15
	A great Snow fell *Feb.* 4:	15
	Tilbury Camp on St. *James*'s day	143
	A *P*lague in *London*, whereof dyed 30598	127
	Gunpowder Treaſon, *November* 5.	126
	A great Snow, and *Smithfield* paved	116
	A great Plague in *London*, whereof dyed 35418	106
	The Long Parliament began, *November* 3.	91
	King *Charles* the Firſt was Murdered	83
	Two Comets appeared in *December* and *March*	66
	The doleful Plague that followed them	66
	London was burnt, *September* 2, 3, 4, 5	65
	The laſt great Snow	57
	The wonderful Comet in *December*	51
	A Comet in *Auguſt*	49
	The terrible Fire in *Wapping*, *November* 19.	49
	A great Earthquake, *October* the 6th	48
	The laſt great Froſt	47
	The Rebellion in the *Weſt*	4
	The ſeven Biſhops ſent to the Tower, *June*	4
	The Prince of *Orange* Landed, *November* 5.	43
	King *VVilliam* went to *Ireland* with an Army, *June*	41
	The *French* Fleet beaten by the *Engliſh* and *Dutch*, &c.	39
	Our moſt Gracious Queen *Mary* Dyed, *Dec.* 28:	37
	The Horrid Conſpiracy to Aſſaſſinate His Majeſty King *William*, and to bring in the *French*, was happily diſc.	35
	The Peace concluded with *France*	34
	War again proclaimed againſt *France*, &c.	29
	Gibraltar taken by the *Engliſh* & *Dutch* Fleet, *July*	27
	The Glorious Battle of *Blenheim*, where the *French* were Beaten by the Confederates	26
	The Battle of *Ramillis*, wherein the *French* were beaten	25
	England and *Scotland* made one Kingdom, by the Name of *Great Britain*, *May* 1.	24
	Peace again concluded with *France*, 1713	18
	King *George* 1. proclaim'd *Aug.* 1. 1714.	17
	King *George* 1. died, *June* 11. 1727.	4
	King *George* 2. proclaimed, *June* 15. 1727.	4
	And crowned *October* 11. 1727.	4

Of the Eclipſes this Year, 1731.

FOUR Times will the two great Luminaries be eclipſed to the Inhabitants of this Terraqueous Globe: They appen in the following Order.

The firſt is a partial Eclipſe of the Moon, and will be con-picuous here if Clouds don't interpoſe: It happeneth on the th Day of June in the Morning, as under

		d.	h.	m.	
The apparent Time at Leiceſter of	The Beginning June	8	13	8	P. M.
	The True Ecliptic ☍		13	43	
	The Middle		13	51	
	The End of the Eclipſe		14	33	
	The total Duration		1	25	
	The Digits Eclipſed	1°.	52'.	0''.	



The TYPE.

The ſecond is of the Sun, June 23d, about 5 in the Morning; the ☽'s Latitude being South, and augmented by her Parallax: It will not be ſeen here, but it will appear a very great Eclipſe to the South-Eaſt Parts of Africa, the Red Sea, Indian Seas, and Parts adjacent.

The third is of the Moon, Dec. 2. about Noon, and conſequently inviſible here: The Moon looſes about one half of her Light, and will ſo appear to our Antipodes, Guinea Nova, Zelandia Nova, all the Eaſt-Indies, &c.

The fourth and laſt is of the Sun, Dec. 18. about 1 in the Morning, therefore inviſible here: It will be conſpicuous to all the Eaſt-Indies, and very great in China, Japan, and the Neighbouring Countries.

Of Eclipſes of the Sun and Moon, what they are, and when they happen.

THE Eclipſe of the Sun is not properly an Eclipſe, tho' commonly ſo called, it being nothing elſe but the direct Interpoſition of the Body of the Moon betwixt our Sight and the Sun; for the Moon being a denſe, ſolid, and dark Body, and not tranſparent, coming betwixt the Sun and the Earth, (which is always in a Conjunction) doth thereby hide more or leſs of the Sun's bright-ſhining Body from our Sight: But yet the Sun is not eclipſed at every Conjunction, but when it falleth in or near thoſe Interſections of their Orbs, called the Head or Tail of the Dragon: Neither can the Eclipſe of the Sun be Univerſal, as the Moon is; but may appear in one Climate a great Eclipſe, in another it may be leſſer, and in other ſome no Eclipſe at all, and that at the ſelf-ſame Inſtant: And the Reaſon is, that the Sun ſo far exceedeth the Earth, and the Earth the Moon in Bigneſs, that the Cone of the Moon's Shadow cannot take away or hide the whole Body of the Sun from all Parts of the Earth; but one Part only ſhall obſerve the ſame to be Total, or of like Quantity. Hence it may appear that the Sun loſeth no Light, but only we are deprived of the ſame by the Interpoſition of the Moon's dark Body.

The Eclipſe of the Moon is cauſed by the Interpoſition of the Earth between the Sun and her; for the Moon having no Light but what ſhe receiveth of the Sun, is therefore by the Earth's Interpoſition eclipſed; and this can never happen but at the Full; yet not at every Full Moon, but only when at the Oppoſition ſhe is found in or near the Ecliptick, that is, in or near to thoſe Nodes, or Interſections of the Ecliptick, called the Head and Tail of the Dragon; for then having little or no Latitude, but being diametrically oppoſite to the Sun, the dark Shadow of the Earth falleth upon her, and eclipſeth her. From hence it appears, that what we call an Eclipſe of the Sun, is more properly an Eclipſe of the Earth: For as the Shadow of the Earth eclipſeth the Moon, ſo the Shadow of the Moon eclipſeth the Earth; the Sun loſeth no Light in one Caſe more than in the other, *&c.*

A Table of Equation of Natural Days, for the better proving the Truth of the Motion of Clocks and Watches, for the firſt ſix Months of the Year 1731.

M.D.	*January* m.	ſ.	*Febr.* m.	ſ.	*March* m.	ſ.	*April* m.	ſ.	*May* m.	ſ.	*June* m.	ſ.
1	8	53	14	49	10	10	0	53	4	9	1	8
2	9	15	14	47	9	54	0	36	4	10	0	56
3	9	37	14	45	9	38	0	20	4	12	0	43
4	9	59	14	42	9	21	0	4	4	13	0	3[illegible]
5	10	20	14	39	9	4	0	*11	4	12	0	19
6	10	41	14	34	8	46	0	26	4	12	0	0
7	11	0	14	29	8	28	0	41	4	11	0	*17
8	11	18	14	24	8	10	0	55	4	9	0	20
9	11	36	14	18	7	25	1	9	4	7	0	33
10	11	54	14	11	7	34	1	22	4	4	0	46
11	12	10	14	3	7	15	1	35	4	1	1	58
12	12	26	13	54	6	56	1	48	3	58	1	11
13	12	41	13	45	6	38	2	0	3	53	1	24
14	12	55	13	36	6	19	2	11	3	48	1	37
15	13	9	13	26	6	0	2	22	3	43	1	50
16	13	21	13	15	5	41	2	35	3	37	2	2
17	13	33	13	4	5	28	2	43	3	31	2	14
18	13	43	12	53	5	4	2	52	3	24	2	20
19	13	53	12	41	4	45	3	1	3	17	2	30
20	14	3	12	28	4	26	3	10	3	9	2	50
21	14	11	12	15	4	7	3	18	3	0	3	2
22	14	18	12	1	3	49	3	26	2	52	3	13
23	14	25	11	47	3	31	3	33	2	43	3	25
24	14	31	11	31	3	13	3	41	2	34	3	36
25	14	36	11	16	2	54	3	46	2	24	3	40
26	14	40	11	1	2	31	3	51	2	14	3	57
27	14	43	10	46	2	17	3	55	2	4	4	7
28	14	46	10	30	2	0	3	59	1	53	4	16
29	14	47			1	42	4	3	1	42	4	25
30	14	48			1	25	4	6	1	31	4	33
31	14	49			1	0			1	19		
	Watch too faſt.		Watch too faſt.		Watch too faſt.		too faſt. Watch too ſlow.		Watch too ſlow.		too ſlow. Watch too faſt.	

A Table of Equation of Natural Days, for the better proving the Truth of the Motion of Clocks and Watches, the laſt ſix Months of the Year 1731.

M.D.	*July*		*Auguſt*		*Septem.*		*October*		*Novem.*		*Decemb*	
	m.	ſ.	m.	ſ.	m.	ſ.	m.	ſ.	m.	ſ.	m.	ſ.
1	4	41	4	32	3	43	13	11	15	25	5	49
2	4	49	4	23	4	4	13	25	15	17	5	20
3	4	57	4	13	4	24	13	39	15	8	4	52
4	5	4	4	2	4	45	13	53	14	58	4	23 Watch too ſlow.
5	5	10	3	51 Watch too faſt.	5	5	14	5	14	47	3	54
6	5	13	3	40	5	26	14	17	14	35	3	25
7	5	22	3	27	5	46	14	28	14	23	2	5
8	5	27	3	14	6	7	14	39	14	10	2	25
9	5	31 Watch too faſt.	3	1	6	28 Watch too ſlow.	14	49	13	56 Watch too ſlow.	1	55
10	5	35	2	48	6	48	14	59 Watch too ſlow.	13	41	1	24
11	5	38	2	31	7	9	15	9	13	25	0	56
12	5	41	2	20	7	29	15	18	13	8	0	26 *
13	5	43	2	5	7	49	15	25	12	51	0	4
14	5	45	1	50	8	9	15	3	12	33	0	3
15	5	46	1	34	8	29	15	37	12	14	1	4
16	5	46	1	17	8	48	15	42	11	55	1	3 Watch too faſt.
17	5	45	1	0	9	8	15	48	11	35	2	4
18	5	44	0	43	9	28	15	52	11	14	2	2
19	5	43	0	26	9	47	15	55	10	53	3	2
20	5	41	0	9 *	10	7	15	57	10	31	3	31
21	5	39	0	9	10	25	15	59	10	8	4	0
22	5	36	0	27	10	43	16	0	9	44	4	2
23	5	32	0	46 Too ſlow.	11	1	16	1	9	20	4	5
24	5	28	1	5	11	19	16	0	8	55	5	2
25	5	23	1	24	11	37	15	58	8	30	5	5
26	5	17	1	44	11	54	15	56	8	4	6	17
27	5	11	2	3	12	10	15	53	7	38	6	4
28	5	5	2	22	12	26	15	49	7	12	7	1
29	4	58	2	42	12	41	15	44	6	45	7	3
30	4	50	3	3			15	38	6	17	8	0
31	4	41	3	23			15	32			8	2

The Equation of Time in the foregoing Table mentioned, riſeth from the difference of the Right Aſcenſions of the Equinoctial, and the Zodiack, together with the Equation of the Sun's or Earth's Annual Motion; whoſe ſum if of like Denomination or Difference, if unlike, is the abſolute Equation of Time, according to Mr. *Tho.* *Street* in his *Aſtronomia Carolina.*

Hence 'tis concluded, that a good and well adjuſted Clock, or Watch, ought to be at all times ſo much Faſter or Slower than the apparent Time ſhewn by a good Sun-Dyal, as in the foregoing Table mentioned; and for the greater exactneſs in examining, 'tis beſt to compare by the ſame Sun-Dyal, and at the ſame time of Day, as oft as may be.

Of the Four Quarters of the Year: And firſt of the Spring,

S*Pring* Quarter begins *March* 9. 12 hours 42 m. P. M. the *Sun* then entring the firſt Point of *Aries*, (or the Earth *Libra*) making equal Day and Night to all (except under the *Poles.*) This Quarter generally is hot and moiſt.

2. *Of Summer.*

This Quarter begins *June* 11. 50 m. after 2 Manè, making the longeſt Day and ſhorteſt Night to all on this ſide the Equator. This Quarter naturally is hot and dry.

3. *Of Autumn.*

Autumn this Year begins *September* 12. 4 hours 52 minutes, Afternoon, the Earth then entring *Aries*, or the Sun *Libra*, again making equal Day and Night. This Quarter is naturally cold and dry, reſembling melancholly.

4. *Of Winter.*

Which begins *December* 11. 6 hours 36 m. Mane, making our ſhorteſt Day and longeſt Night, and is naturally cold & moiſt.

To find the Riſing, Southing and Setting, of ſeveral fixed Stars hereafter mentioned.

IN the Tables following you have firſt the ſeven Stars Southing for every fifth day: In the ſecond Table is ſet the difference betwixt the Southing of thoſe Stars therein named, and the ſeven Stars, which difference being added to the time of the ſeven Stars Southing, giveth theirs. In the ſame Table is alſo ſet their ſemidiurnal Arches, thereby to find the riſing and ſetting of the ſaid Stars. Suppoſe it is required to know what time the great Dog-ſtar, called *Syrius*, will be South the 11th of *February*? I then find the Seven Stars South at 5 hours 10 minutes, to which I add 3 hours 2 minutes the difference annexed to the great Dog-Star, and it makes 8 hours 12 minutes, being the time of its Southing the ſaid 11th of *February*. If to the Southing you add the Semidiurnal Arch 4 hours 31 minutes, it gives the time of its ſetting at 12 hours 43 minutes; but if you ſubſtract the Semidiurnal Arch from the Southing, it leaveth the time of its Riſing. The like may be done by any other of the ſaid Stars.

For the better diſtinction of the ſeveral ſizes of Stars they are divided into ſix ſeveral magnitudes. The biggeſt and brighteſt Stars are called Stars of the firſt Magnitude. Thoſe one ſize inferiour in light, and bigneſs, are called Stars of the ſecond Magnitude, &c. Now for the better knowing the Stars hereafter-mentioned; Note, That the great Dog-ſtar, Lion's-Heart, Virgins Spike, and the bright ſtar of *Lyra*, are accounted ſtars of the firſt magnitude, ſo are alſo *Aldebaran* and *Arcturus*, but they are Red Stars, much of the colour of *Mars*, all the reſt in the Table are of the ſecond magnitude, except the Northern and Southern *Aſſ.* which are ſmall Stars, being of the fourth magnitude.

A Table ſhewing the Hour and minute of the Seven Stars coming to South, every 5th day of this year, 1731.

Months.	Days of the Month. 1		6		11		16		21		26	
	H.	M.	H:	M.	H.	M.	H.	M.	H.	M.	H.	M.
January	7 A	57	7 A	36	7 A	14	6 A	53	6 A	32	6 A	12
February	5 A	49	5	29	5	10	4	51	4	32	4	14
March	4 A	0	3	41	3	23	3	4	2	46	2	28
April	2 A	7	1	48	1	30	1	11	0	52	0	32
May	0 A	14	11 M	54	11 M	34	11 M	14	10 M	53	10 M	33
June	10 M	8	9	47	9	26	9	6	8	45	8	25
July	8 M	5	7	45	7	24	7	4	6	45	6	25
Auguſt	6 M	3	5	45	5	26	5	8	4	49	4	31
September	4 M	10	3	52	3	34	3	17	3	0	2	41
October	2 M	22	2	3	1	44	1	25	1	5	0	46
November	0 M	22	0	2	11 A	39	11 A	16	10 A	54	10	32
December	10 A	11	9 A	49	0	26	0	4	8	41	8	20

A Table ſhewing the difference in hours and minutes between the coming to ſouth of ſeveral fixed ſtars, and the ſeven ſtars, as alſo their ſemi-diurnal Arches thereby to find their riſing and ſetting.

Names of the Stars.	*Diffe. ſouth.*		*ſemid. Arches*		*Names of the Stars.*	*Diff. ſouth.*		*ſemid. Arches*	
	h.	*m.*	*h.*	*m.*		*h.*	*m.*	*h.*	*m.*
Aldebaran B.eye	0	49	7	28	Lions heart, Baſil.	6	23	7	13
2d.in Orions Girdle	1	51	5	54	Virgins Spike	9	40	5	9
Gr. Dog. Syrius	3	2	4	31	Arcturus	10	32	8	0
Caſtor 1ſt.head ♊	3	46	9	47	South ballance	11	5	4	40
Lit.Dog.procyon	3	54	6	32	North ballance	11	31	5	16
Pollux,2d.head ♊	3	57	9	4	Northern Crown	[illegible]	52	8	55
Northern Aſſ.	4	56	8	12	bright ✱ Lyræ	14	57	*ſets*	*not*
Southern Aſſ.	4	58	7	49	bright ✱ Vulturis	16	6	6	43

Here followeth ſome few Rules, and Tables, for the menſuration of Superficies and Solids.

FOr the Menſuration of ſuperficial or flat meaſures, ſuch as Board, Glaſs, Pavement, Hangings, &c. it will be neceſſary to know how to meaſure any plain ſuperficial figure, as the Square, Long-ſquare, or Parallelogram, Triangle, Circle, parts of the Circle, *&c.* examples of all which do here follow.

I. *How to meaſure a Square.*

Let there be a ſquare floor, or pavement, the ſides whereof are each of them 5 feet 6 inches, and 'tis required to know how many ſquare, or ſuperficial feet are contained therein. Firſt (a good plain way to avoid Fractions will be to) Reduce the whole ſide into inches, 5 feet, 6 inches, being *66* inches, multiply *66* by *66*, and the Product will be 4356, the ſuperficial content in inches; then divide 4356 by 144 (the ſquare inches in one foot) and the quotient will be 30 feet, and 36 inches remaining, which is the number of inches in one quarter of a foot; ſo that in ſuch a ſquare is contained 30 feet and one quarter. See the Margin.

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  66
  66
 ----
 396
396
 ----
4356

4356
 144
------(30
 432
  36
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II. *To meaſure the Long-ſquare or Parallelogram.*

Suppoſe there be a Pavement whoſe length is 72 feet, and breadth 12 feet, how many feet is contained therein.

Multiply 72 in length, by 12 the breadth, and the product will be 864, and ſo many ſuperficial feet are contained in that Pavement.

72
12
144
72
864

III. *To Meaſure a Long Superficies, which is broader at one end than at the other.*

Let there be a ſuperficies whoſe length is 72 inches, the breadth of the greater end 50 inches, and the breadth of the leſſer end 34 inches, and let it be required to know how many feet are contained therein. Firſt, add the breadths of both the ends together, which maketh 84, take half thereof, which is 42, which being multiplyed by 72 the length, the product will be 3024 the content in inches, which being divided by 144 (the inches in one foot) the Quotient will be 21 feet, and nothing remaining, ſo that there is exactly 21 feet in ſuch a ſuperficies.

72
42
144
288
3024
144
288 (21
144

IV. *How to Meaſure Triangles.*

All Right lined Triangles are meaſured by this general Rule.

Multiply half the length of the Baſe by the whole Perpendicular. Or, the whole length of the Baſe by half of the Perpendicular.

Suppoſe the Baſe of a Triangle be 44, and the Perpendicular 26, what is the Content.

Multiply 44 (the Baſe) by 13, (half the perpendicular) th Product will be 572 : Or 22 (half the Baſe) being multiplye by 26, (the whole perpendicular) the Product will be 572, a before, which is the Content of ſuch a Triangle.

V. All *Trapezias*, or Figures with four unequal ſides ; alſ Multangular, or many ſided irregular Figures, muſt be divide into Triangles, and thoſe Triangles meaſured as before is taught and their ſums added together will give the content of ſuch irregular Figures. And note, that the leaſt number of Triangles, into which any plot or irregular figure may be reduced, will be leſ by two than the number of the ſides of ſuch irregular figures.

VI. *How to meaſure Circles, and parts of Circles.*

The Diameter of every Circle hath ſuch proportion to th circumference of the ſame Circle as 7 hath to 22. Therefor

th

the Diameter being given to find the circumference, you muſt multiply the Diameter by 22, and the product being divided by 7, the Quotient will be the circumference. Thus, ſuppoſe the Diameter of a Circle be 14, multiply 14 by 22, the product will be 308, which being divided by 7, the Quotient is 44, being the circumference of that Circle whoſe Diameter is 14.

Having the Circumference to find the Diameter.

Multiply the circumference given by 7, the product divide by 22. and the Quotient will be the Diameter. Let the circumference of a circle be 60, multiply 60 by 7 the product will be 420, which being divided by 22, the Quotient will be 19, and $\frac{2}{22}$ or $\frac{1}{11}$ which is the Diameter.

To find the Area or Superficial content of a Circle. Multiply half the circumference by half the Diameter, the product is the content of the Circle: Thus, Let the circumference be 60, the half whereof is 30, and the Diameter 19 $\frac{2}{22}$ the half whereof is 9$\frac{12}{22}$, by which multiplying 30, the product will be 286 $\frac{4}{11}$ which is the ſuperficial content of ſuch a Circle; or,

By the Diameter to find the Area of the circle. Firſt, ſquare the Diameter, multiply the ſquare by 11, and divide the product by 14, the Quotient is the ſuperficial content of the circle.

Let the Diameter be as above 19 $\frac{1}{11}$ the ſquare whereof is 364$\frac{56}{121}$ this multiplied by 11 produceth 4009$\frac{1}{11}$ which being divided by 14 the Quotient is 286$\frac{4}{11}$ as above, being the ſuperficial content of ſuch a circle.

To meaſure the ſuperficial content of half the circle, the quarter of a circle, or of any other ſection of a circle, more or leſs, having the ſemidiameter given.

Multiply half of the compaſs thereof by the ſemidiameter of the circle, ſo ſhall you have the content.

Of the Menſuration of Solids.

AS Plain or Superficial Meaſure conſiſteth of two dimenſions, namely, length and breadth; ſo Solid meaſure conſiſteth of three dimenſions, namely, length, breadth and thickneſs.

To meaſure any kind of Timber, either Square, Triangular, Round, or of any other Faſhion, provided it be ſtraight and equal all along.

Caſt up the ſuperficial Content at the end thereof, by the Rules before going, for the finding the Content of the Square, Triangle, Circle, &c. which Superficial Content being multi-

plyed

plyed by the length of the Piece, will give you the Solid Content thereof. *Example.* Let there be a piece of Timber, (o other ſolid matter) whoſe breadth is 18 inches, its depth 1 inches, and length 142 inches, to find how many ſolid feet ar contained therein. Firſt, multiply the breadth 18 by the depth 13, the product is 234, being the ſuperficial inches at the en of the piece. Secondly, multiply this 234 by 142 the length of the piece, and the product will be 33228, the ſolid Content in inches. Thirdly, divide 33228 by 1728, (being the number o cubical inches in one ſolid foot) and the quotient will be 19, and 396 inches remaining, which is 19 ſolid feet, and almoſt one quarter of a foot, and ſo much is the ſolid content of ſuch a piece.

A 2d Example of a round piece. Let there be a round piece of Timber whoſe compaſs is 60 inches, and the length 20 feet, (or 240 inches) and let it be required to find the ſolid content thereof. Firſt, by the help of the circumference 60, find the Diameter (as before is taught) by multiplying 60 by 7, and dividing the product thereof by 22, ſo ſhall you find the Diameter to be 19$\frac{1}{11}$: Then by either of the ways before taught, *viz.* by multiplying $\frac{1}{2}$ the circumference by $\frac{1}{2}$ the Diameter; or by (ſquaring, or) multiplying the Diameter in it ſelf, and multiplying that ſquare by 11, and dividing the product by 14, the ſuperficial content of the end of ſuch a piece will be found to be 286$\frac{4}{11}$ inches. Now multiply this 286$\frac{4}{11}$ by the length of the piece 240, and the product will be 68727$\frac{3}{11}$ the content in inches, which being divided by 1728, the quotient will be 39 feet, and $\frac{3}{4}$ of a foot, and 39$\frac{3}{11}$ inch. remaining, which is the ſolid content of ſuch a piece of Timber. But had this piece of Timber been meaſured by that egregiouſly falſe way of taking $\frac{4}{4}$ part of the Girt for the ſide of the ſquare equal, it would have been found to be but 31 feet and $\frac{1}{4}$ of a foot, which is above $\frac{1}{5}$ part leſs than the truth, it being 39 feet, & above $\frac{3}{4}$.

In behalf of that erroneous way many do plead, that in round Timber there is great loſs in chipping to bring it near a ſquare, therefore that way may be allowed; but this is very unequal: in great Timber there being little loſs, in ſmall Timber much, let therefore the quality be conſidered, rather than make ſuch unequal amends by a falſe quantity.

Of the Menſuration of Tapering Timber, either round or ſquared, ſuch as Fruſtums of Cones and Pyramids.

FIrſt find the ſuperficial Area of each end of the piece, and multiply the one Area by the other. Secondly, out of

the

he product of the two Area's, extract the Square Root. Thirdly, add this Root and the two Area's all into one ſum. aſtly, multiply this ſum by one third part of the length of the iece, and that product ſhall give you the Content.

Let there be a piece of Timber whoſe Circumference at the reater end is 66 inches, at the leſſer end 44 inches, and the ength 20 feet, and it is required to find how many ſolid feet re contained therein. Firſt, the Area of the Circle at the reater end (by multiplying half the Circumference 33 by half he Diameter 10½) will be found to be 346½, and the Area of he Circle at the leſſer end will be 154: Theſe multiplyed together do produce 53361. Secondly, out of this product extract the Square Root, which is 231, (for 231 being multiplyed n it ſelf produceth 53361). Thirdly, add the two Areas, and he Square Root 231 together, and the ſum of them will be 731½. Laſtly, multiply 731½ by 80 inches, (one third part of the length) and the product will be 58520, being the ſolid inches contained therein, which inches being divided by 1728, the Quotient will be 33 feet, and 1496 inches remaining, which is 3 quarters of a foot, and almoſt half a quarter.

To find the Content of Tapering Timber, other ways than is taught above.

Theſe pieces being parts of Cones or Pyramids, their Contents may be found by ſeeking the Content of the whole Cone or Pyramid, (of which they are part) and the Content of that part which is wanting, for that part being ſubſtracted from the whole,the remainder muſt be the Content of the part required.

Now the way to find the content of a Cone or Pyramid is, to multiply the ſuperficial Content of the Baſe by one third part of the length; and to find the length of the top part of a Cone or Pyramid which is wanting; ſay thus, As the difference of the ſides, or Diameters of the two ends, to the length between them; ſo is the ſide, or Diameter of the greater end, to the whole length. *Example*, of the piece before mentioned, whoſe greater end is 66 inches about, and the leſſer end 44; hence the Diameter of the greater end will be 21, and the Diameter of the leſſer end will be 14, and their difference is 7, therefore ſay, If 7 give 20 feet what will 21 give? Anſwer, 60 feet; being the whole length of the Cone; Now the ſuperficial

content

content of the Baſe of this Cone, (being $346\frac{1}{2}$ inches) multiplyed by 240 inches, (one third part of the length of the whole Cone) produceth 83160 inches, the content of the whole Cone. And the ſuperficial content of the leſſer end, (which is the Baſe, of the top (or wanting) part of the Cone) which is 154, being multiplyed by 160, (one third part of the length of the top (or wanting) part) produceth 24640 inches, the content of the wanting part, which being ſubſtracted from 83160, (the content of the whole Cone) the remainder is 58520 inches, the content of the part required, being the ſame as before.

Here followeth Tables ready calculated, for the Meaſuring of Squared or Round Timber, which is ſuppoſed to be equal all along: Their Uſe is thus; ſeek the ſide of the Squared, or compaſs of the Round Timber, in the firſt, third or fifth columns of the Tables, and againſt it, in the next column, you have the length of a ſolid foot. Thus, the ſide of a ſquared piece of Timber being 20 inches, the length of a ſolid foot will be 4 inches, and 3 tenth parts of an inch: And the compaſs of a round piece, being 80 inches, the length of a ſolid foot will be found to be 3 inches, and 39 hundredth parts of an Inch.

A Table, ſhewing how much in length will make a Solid Foot of any Square Stone or Timber: The ſide of the Square being given in Inches, from 1 Inch to 36 Inches ſquare.

Side of the Square.	Length of a ſolid foot			Side of the Square.	Length of a ſolid foot.		Side of the Square.	Length of a ſolid foot.	
Inch.	Fe.	inc.	10ths	Inch.	Inch.	10ths	Inch.	Inch.	10ths
1	144	0	0	13	10	2	25	2	8
2	36	0	0	14	8	8	26	2	6
3	16	0	0	15	7	6	27	2	3
4	9	0	0	16	6	7	28	2	2
5	5	9	2	17	5	9	29	2	1
6	4	0	0	18	5	3	30	1	9
7	2	11	2	19	4	8	31	1	8
8	2	3	0	20	4	3	32	1	7
9	1	9	3	21	3	9	33	1	6
10	1	5	3	22	3	5	34	1	5
11	1	2	3	23	3	3	35	1	4
12	1	0	0	24	2	0	36	1	3

A Table ſhewing how many inches in length will make a foot ſolid, of any round piece of Timber or Stone, the Girt being known, from 12 inches compaſs to 100.

Com.	len. of a foot		Com.	len. of a foot		Com.	len. of a foot	
Inch.	Inch.	100 p.	Inch.	Inch.	100 p.	Inch.	Inch.	100 p.
11	179	46	41	12	92	71	4	31
12	150	80	42	12	31	72	4	20
13	128	49	43	11	74	73	4	08
14	110	79	44	11	31	74	3	97
15	94	31	45	10	72	75	3	86
16	84	82	46	10	26	76	3	76
17	75	14	47	9	83	77	3	66
18	67	02	48	9	42	78	3	57
19	60	15	49	9	04	79	3	48
20	54	29	50	8	69	80	3	39
21	49	23	51	8	35	81	3	31
22	44	86	52	8	03	82	3	23
23	40	90	53	7	73	83	3	15
24	37	69	54	7	42	84	3	08
25	34	74	55	7	18	85	3	01
26	32	12	56	6	92	86	2	94
27	29	79	57	6	68	87	2	87
28	27	70	58	6	45	88	2	80
29	25	82	59	6	24	89	2	74
30	24	13	60	6	03	90	2	68
31	22	60	61	5	84	91	2	62
32	21	21	62	5	65	92	2	57
33	19	92	63	5	47	93	2	51
34	18	78	64	5	30	94	2	46
35	17	74	65	5	14	95	2	41
36	16	76	66	4	98	96	2	36
37	15	86	67	4	84	97	2	31
38	15	04	68	4	70	98	2	26
39	14	28	69	4	56	99	2	22
40	13	57	70	4	43	100	2	17

Advertiſements.

ARTIFICIAL TEETH Set in ſo firm as t with them, and ſo exact as not to be diſtinguiſh'd Natural; they are not to be taken out at Night, as is by falſly ſuggeſted, but may be worn Years together; yet are ſo fitted that they may be taken out and put in by the P that wears them, at Pleaſure; and are an Ornament t Mouth, and greatly helpful to the Speech. Alſo Teeth Cl and Drawn, by *John Watts* and *Samuel Rutter*, Operators, apply themſelves wholly to the ſaid Buſineſs, and Li *Raquet-Court*, *Fleet-ſtreet*, *London*.

TRuſſes for Ruptures, Inſtruments for the Lame or C ed: By *Peter Bartlett*, Steel Truſs Maker to the at *Chatham* for the help of his Majeſty's Seamen, Houſe, at the Golden Ball in St. Paul's Church-Yard, Lo —Perſons in the Country ſending their Bigneſs, and whic the Rupture is, in a Letter, poſt paid, may be ſupply'd wi Truſſes, and proper Directions.

His Mother, Mrs. *M. Bartlett*, at the Golden Ball in ſtreet, near Fleet-bridge, is ſkilful in this Buſineſs t own Sex.

WRiting and Arithmetick, Taught by Mr. Joſeph Pe at Stamford in Lincolnſhire: With whom Youth be commendably Boarded for their ſpeedier Improvemen

IF any Gentleman, or other Perſon, would have his ſurveyed, or any Building or Edifice meaſured, eithe *Bricklayers*, *Carpenters*, *Maſons*, *Plaiſterers*, *&c.* the Autho this Almanack will perform the ſame, either for Maſt Work-men. And if any Perſon would have about his H or Gardens, any Sun-Dials, either Direct, Declining, Incli Reclining, Concave, Convex, or Reflective, he will ma prepare for them ſuch as they ſhall deſire.

From Stapleford, *near* Melton-Mow
in the County of Leiceſter,

Die ☽, Aug. 17. 17